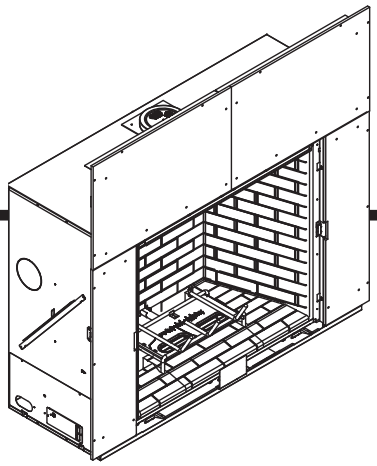
heatilator®
The first name in fireplaces



Owner's Manual
Installation and Operation

Models:

HEIR36H
HEIR36T
HEIR42H
HEIR42T
HEIR50H
HEIR50T

GAS-FIRED
c UL us
LISTED

NOTICE

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

⚠ WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
  - **DO NOT** try to light any appliance.
  - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, *Title 24 CFR, Part 3280* or *Standard for Installation in Mobile Homes, CAN/CSA Z240MH, in Canada.*

This appliance is only for use with the type(s) of gas indicated on the rating plate.

⚠ WARNING

HOT SURFACES!
Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.
- **DO NOT** touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away

- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.
- Keep clothing, furniture, draperies and other flammable materials away.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the appliance with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.

See Table of Contents for location of additional Commonwealth of Massachusetts requirements.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory trained professionals, or technicians supervised by an NFI certified professional.

Read this manual before installing or operating this appliance.
Please retain this owner's manual for future reference.

A. Congratulations

Congratulations on selecting a Heatilator gas fireplace, an elegant and clean alternative to wood burning fireplaces. The Heatilator gas fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Heatilator gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Heatilator family of fireplace products!

Homeowner Reference Information

We recommend that you record the following pertinent information about your fireplace.

Model Name: _____ Date purchased/installed: _____

Serial Number: _____ Location on fireplace: _____

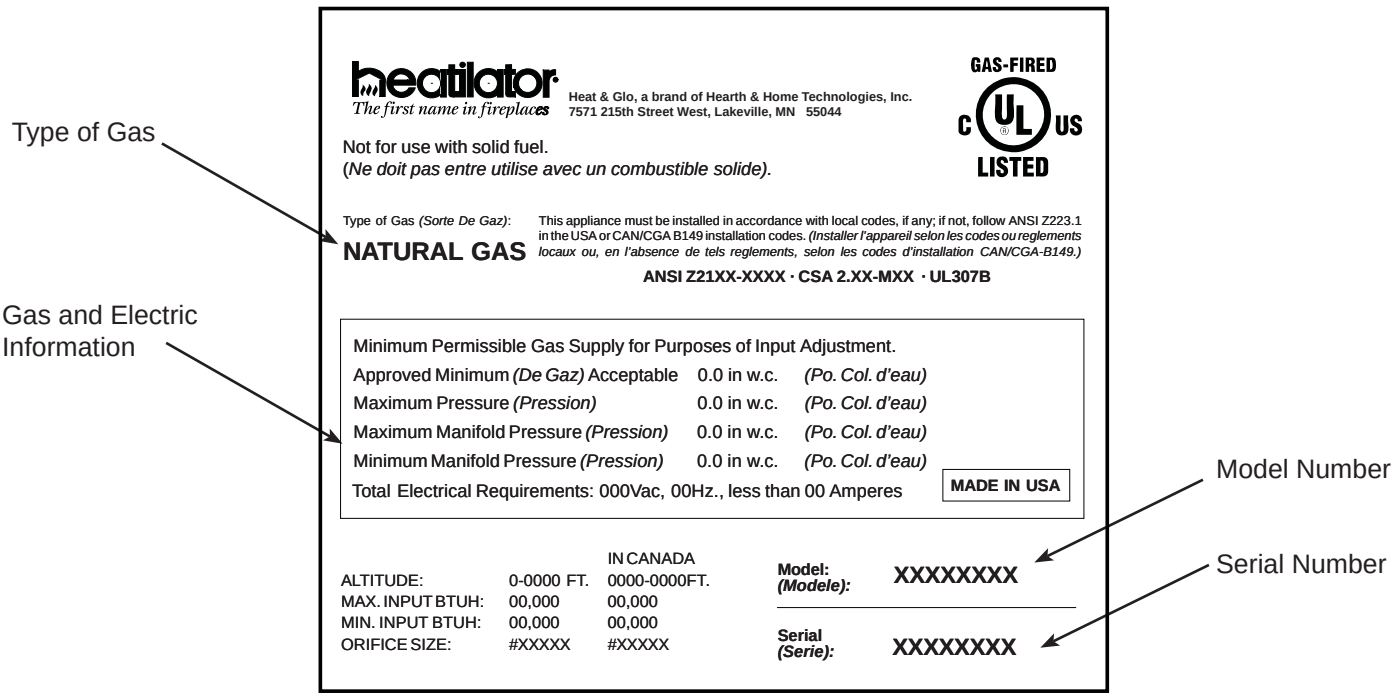
Dealership purchased from: _____ Dealer Phone: _____

Notes: _____

_____

Listing Label Information/Location

The model information regarding your specific fireplace can be found on the rating plate usually located in the control area of the fireplace.


Type of Gas
Gas and Electric Information
Model Number
Serial Number
heatilator
The first name in fireplaces
Heat & Glo, a brand of Hearth & Home Technologies, Inc.
7571 215th Street West, Lakeville, MN 55044
GAS-FIRED
c UL us
LISTED
Not for use with solid fuel.
(Ne doit pas entre utilise avec un combustible solide).
Type of Gas (Sorte De Gaz):
NATURAL GAS
This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 in the USA or CAN/CGA B149 installation codes. (Installer l'appareil selon les codes ou reglements locaux ou, en l'absence de tels reglements, selon les codes d'installation CAN/CGA-B149.)
ANSI Z21XX-XXXX · CSA 2.XX-MXX · UL307B
Minimum Permissible Gas Supply for Purposes of Input Adjustment.
Approved Minimum (De Gaz) Acceptable 0.0 in w.c. (Po. Col. d'eau)
Maximum Pressure (Pression) 0.0 in w.c. (Po. Col. d'eau)
Maximum Manifold Pressure (Pression) 0.0 in w.c. (Po. Col. d'eau)
Minimum Manifold Pressure (Pression) 0.0 in w.c. (Po. Col. d'eau)
Total Electrical Requirements: 000Vac, 00Hz., less than 00 Amperes
MADE IN USA
IN CANADA
ALTITUDE: 0-0000 FT. 0000-0000FT.
MAX. INPUT BTUH: 00,000 00,000
MIN. INPUT BTUH: 00,000 00,000
ORIFICE SIZE: #XXXXX #XXXXX
Model: (Modele): XXXXXXXX
Serial (Serie): XXXXXXXX

⚠ Safety Alert Key:

- ***DANGER!*** *Indicates a hazardous situation which, if not avoided will result in death or serious injury.*
- ***WARNING!*** *Indicates a hazardous situation which, if not avoided could result in death or serious injury.*
- ***CAUTION!*** *Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.*
- ***NOTICE:*** *Used to address practices not related to personal injury.*

Table of Contents

A. Congratulations 2
B. Limited Lifetime Warranty 5

1 Listing and Code Approvals

A. Appliance Certification 7
B. Glass Specifications 7
C. BTU Specifications 7
D. High Altitude Installations 7
E. Non-Combustible Materials Specification 7
F. Combustible Materials Specification 7
G. Electrical Codes 7
H. Requirements for the Commonwealth of Massachusetts . . 8

User Guide

2 Operating Instructions

A. Gas Fireplace Safety 9
B. Your Fireplace 9
C. Clear Space 10
D. Decorative Doors and Fronts 10
E. Fixed Glass Assembly 10
F. Remote Controls, Wall Controls and Wall Switches 10
G. IPI Battery Tray/Battery Installation 10
H. Rating Plate/Glass Clip Tool Location 10
I. Control Module Operation 11
J. Before Lighting Fireplace 11
K. Lighting Instructions (IPI) 12
L. After Fireplace is Lit 13
M. Frequently Asked Questions 13

3 Maintenance and Service

A. Maintenance Tasks-Homeowner 14
B. Maintenance Tasks-Qualified Service Technician 15

Installer Guide

4 Getting Started

A. Typical Appliance System 17
B. Design and Installation Considerations 18
C. Tools and Supplies Needed 18
D. Inspect Appliance and Components 18

5 Framing and Clearances

A. Selecting Appliance Location 19
B. Constructing the Appliance Chase 20
C. Clearances 20
D. Mantel and Wall Projections 21
➔ E. Hearth Extension 23

6 Termination Locations

A. Vent Termination Minimum Clearances 24

7 Vent Information and Diagrams

A. Approved Pipe 26
B. Vent Table Key 26
C. Use of Elbows 26
D. Measuring Standards 26
E. Vent Diagrams 26
F. PVK-80 and PVI-SLP Information 33

8 Vent Clearances and Framing

A. Pipe Clearances to Combustibles 34
B. Wall Penetration Framing 34
C. Install the Ceiling Firestop 35
D. Install Attic Insulation Shield 36
E. Installing the Optional Heat-Zone® Gas Kit 36

9 Appliance Preparation

A. Vent Preparation 37
B. Securing and Leveling the Appliance 38
C. Installing Non-combustible Facing Material 39

10 Installing Vent Pipe (DVP Pipe)

A. Assemble Vent Sections 40
B. Secure the Vent Sections 41
C. Disassemble Vent Sections 41
D. Install Metal Roof Flashing 42
E. Assemble and Install Storm Collar 42
F. Install Vertical Termination Cap 43
G. Heat Shield Requirements for Horizontal Termination . . . 43
H. Install Horizontal Termination Cap 43

11 Gas Information

A. Fuel Conversion 44
B. Gas Pressure 44
C. Gas Connection 44
D. High Altitude Installations 44

12 Electrical Information

A. Wiring Requirements 45
B. IntelliFire Plus™ Ignition System Wiring 45
C. Optional Accessories Requirements 45
D. Electrical Service and Repair 46
E. Junction Box Installation 46

13 Finishing

A. Finishing Templates 47
B. Splatter Guard 48
C. Mantel and Wall Projections 49
D. Facing Material 51
E. Doors 52

14 Appliance Setup

A. Remove Fixed Glass Assembly 53
B. Remove the Shipping Materials 53
C. Clean the Appliance 53
D. Accessories 53
E. Lava Rock and Mystic Ember Placement. 53
F. Glowing Ember Placement 53
G. Install the Log Assembly 54
H. Fixed Glass Assembly 60
I. Air Shutter Setting 62

15 Troubleshooting

A. IntelliFire Plus™ Ignition System 63

16 Reference Materials

A. Appliance Dimension Diagram 65
B. Vent Components Diagrams 67
C. Service Parts 71
D. Contact Information 79

➔ = Contains updated information.

B. Limited Lifetime Warranty

Hearth & Home Technologies Inc.
LIMITED LIFETIME WARRANTY

Hearth & Home Technologies Inc., on behalf of its hearth brands (”HHT”), extends the following warranty for HHT gas, wood, pellet, coal and electric hearth appliances that are purchased from an HHT authorized dealer.

WARRANTY COVERAGE:

HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/ distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

The term “Limited Lifetime” in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood, pellet, and coal appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warranty Period		HHT Manufactured Appliances and Venting							Components Covered
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Coal	Electric	Venting	
1 Year		X	X	X	X	X	X	X	All parts and material except as covered by Conditions, Exclusions, and Limitations listed
2 years				X	X	X			Igniters, electronic components, and glass
		X	X	X	X	X			Factory-installed blowers
			X						Molded refractory panels
3 years				X					Firepots and burnpots
5 years	1 year			X	X				Castings and baffles
7 years	3 years		X	X	X				Manifold tubes, HHT chimney and termination
10 years	1 year	X							Burners, logs and refractory
Limited Lifetime	3 years	X	X	X	X	X			Firebox and heat exchanger
90 Days		X	X	X	X	X	X	X	All replacement parts beyond warranty period

See conditions, exclusions, and limitations on next page.

B. Limited Lifetime Warranty *(continued)*

WARRANTY CONDITIONS:

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets, firebricks, grates, flame guides, light bulbs, batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliance's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The appliance is subjected to prolonged periods of dampness or condensation.
- There is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF LIABILITY:

- The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.

1 Listing and Code Approvals

A. Appliance Certification

MODELS: **HEIR36H, HEIR36T**
HEIR42H, HEIR42T
HEIR50H, HEIR50T
LABORATORY: **Underwriters Laboratories, Inc. (UL)**
TYPE: **Direct Vent Gas Appliance Heater**
STANDARD: **ANSI Z21.88-2009 • CSA 2.33-2009**

This product is listed to ANSI standards for "Vented Gas Appliance Heaters" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles", and "Gas Fired Appliances for Use at High Altitudes".

NOTICE: *This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.*

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE. This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

B. Glass Specifications

This appliance is equipped with 5 mm ceramic glass. Replace glass only with 5 mm ceramic glass. Please contact your dealer for replacement glass.

C. BTU Specifications

Models *(U.S. or Canada)*		**Maximum Input BTU/h**	**Minimum Input BTU/h**	**Orifice Size (DMS)**
HEIR36 (NG)	*US (0-2000 FT)*	45,500	27,000	#30
	CANADA (2000-4500 FT)	41,000	24,500	#31
HEIR36 (LP)	*US (0-2000 FT)*	44,000	27,000	#47
	CANADA (2000-4500 FT)	39,500	24,500	#48
HEIR42 (NG)	*US (0-2000 FT)*	54,000	30,000	#26
	CANADA (2000-4500 FT)	48,500	27,000	#27
HEIR42 (LP)	*US (0-2000 FT)*	51,500	29,500	#45
	CANADA (2000-4500 FT)	46,500	26,500	#46
HEIR50 (NG)	*US (0-2000 FT)*	65,000	36,000	#24
	CANADA (2000-4500 FT)	58,500	32,500	#25
HEIR50 (LP)	*US (0-2000 FT)*	63,500	32,500	#43
	CANADA (2000-4500 FT)	57,000	29,500	#44

D. High Altitude Installations

NOTICE: *If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.*

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce input rate 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

Check with your local gas utility to determine proper orifice size.

E. Non-Combustible Materials Specification

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 ºC** and **UL763** shall be considered non-combustible materials.

F. Combustible Materials Specification

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

G. Electrical Codes

NOTICE: *This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with* **National Electric Code ANSI/NFPA 70-latest edition** *or the* **Canadian Electric Code CSA C22.1.**

- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.

Note: The following requirements reference various Massachusetts and national codes not contained in this document.

H. Requirements for the Commonwealth of Massachusetts

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) in. in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".**

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

See Gas Connection section for additional Commonwealth of Massachusetts requirements.

A. Gas Fireplace Safety

⚠ WARNING

HOT SURFACES!
Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.
- **DO NOT** touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away

- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.
- Keep clothing, furniture, draperies and other flammable materials away.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the appliance with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

If you expect that small children or vulnerable adults may come into contact with this fireplace, the following precautions are recommended:

- Install a physical barrier such as:
  - A decorative firescreen.
  - Adjustable safety gate.
- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.
- Never leave children alone near a hot fireplace, whether operating or cooling down.
- Teach children to NEVER touch the fireplace.
- Consider not using the fireplace when children will be present.

Contact your dealer for more information, or visit: www.hpba.org/safety-information.

To prevent unintended operation when not using your fireplace for an extended period of time (summer months, vacations, trips, etc):

- Remove batteries from remote controls.
- Turn off wall controls.
- Set the selector switch on the control module to the OFF position and remove batteries.

B. Your Fireplace

WARNING! DO NOT operate fireplace before reading and understanding operating instructions. *Failure to operate fireplace according to operating instructions could cause fire or injury.*

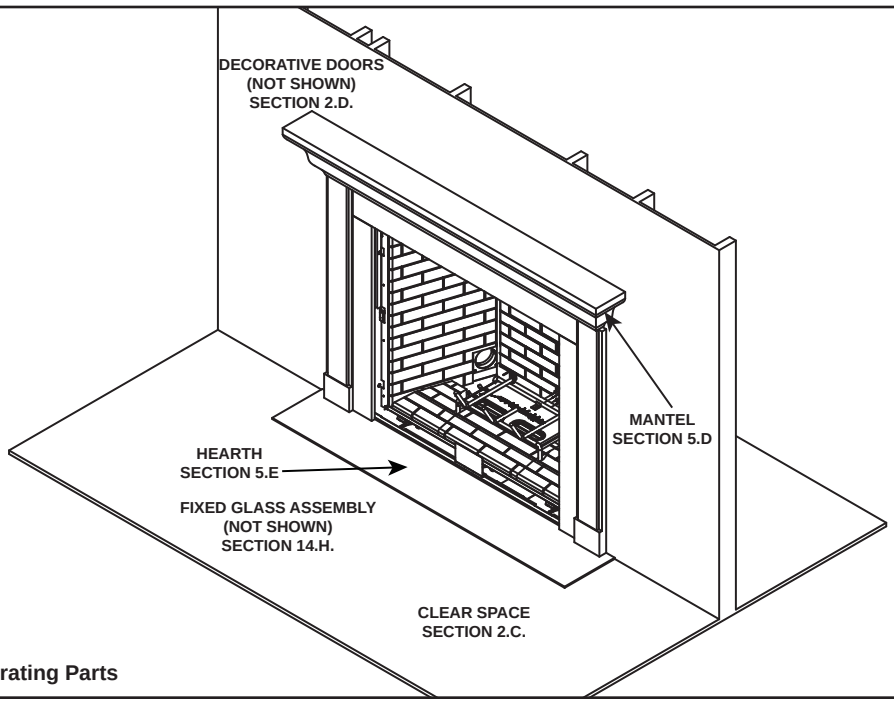


Figure 2.1 General Operating Parts

C. Clear Space

***WARNING! DO NOT** place combustible objects in front of the fireplace or block louvers. High temperatures may start a fire. See Figure 2.2.*

Avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat may damage these objects.

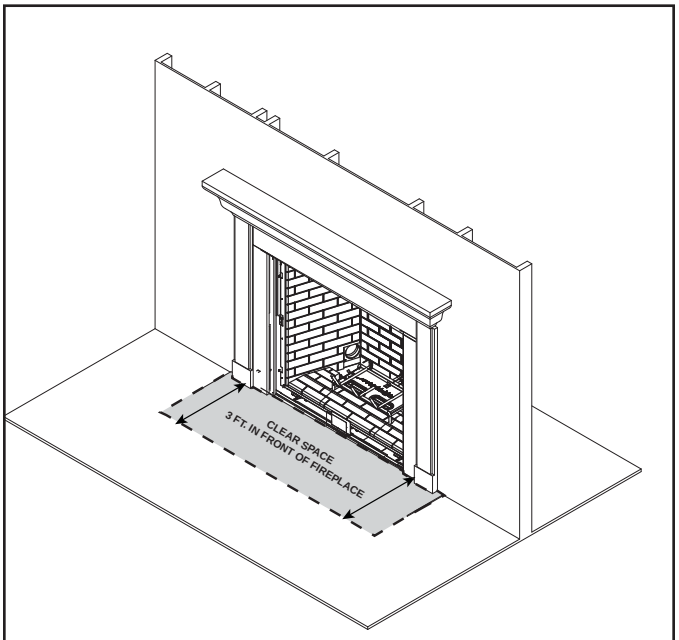


Figure 2.2 Clear Space

D. Decorative Doors and Fronts

***WARNING! Risk of Fire!** Install ONLY doors or fronts approved by Hearth & Home Technologies. Unapproved doors or fronts may cause fireplace to overheat.*

This fireplace has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the fireplace with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

For more information refer to the instructions supplied with your decorative door or front.

E. Fixed Glass Assembly

See Section 14.H.

F. Remote Controls, Wall Controls and Wall Switches

Follow the instructions supplied with the control installed to operate your fireplace:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

See your dealer if you have questions.

G. IPI Battery Tray/Battery Installation

The IntelliFire Plus™ system has a battery backup option. Battery longevity and performance will be affected by the service temperatures of this appliance.

***NOTICE:** Batteries should only be used as a power source in the event of an emergency such as an outage.*

H. Rating Plate/Glass Clip Tool Location

The rating plate for this model is located underneath the firebox affixed to a tray that must be accessed using a 1/4 inch nut driver. See Figure 2.3. To access the rating plate, remove the screw that secures the tray to the appliance bottom and pull the tray out.

The glass clip removal/installation tool is also located in this area. To access the glass clip tool, remove the screw that secures it to the appliance bottom.

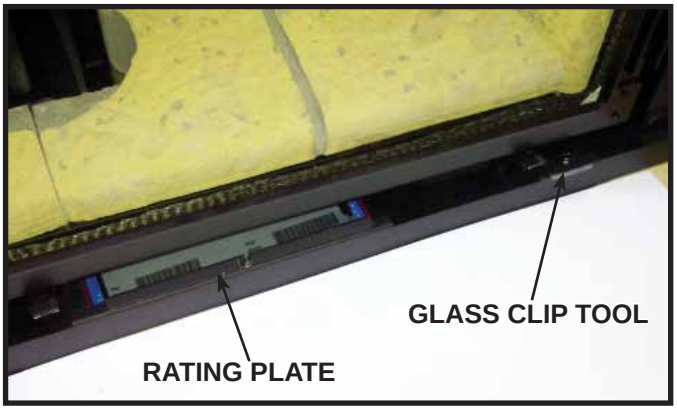


Figure 2.3 Rating Plate/Glass Clip Tool Location

I. Control Module Operation

1. The control module has an ON/OFF/REMOTE selector switch that must be set. See Figure 2.4.

   OFF Position: Appliance will ignore all power inputs and will not respond to any commands from a wall switch or remote. The unit should be in the OFF position during installation, service, battery installation, fuel conversion, and in the event that the control goes into LOCK-OUT mode as a result of an error code.

   ON Position: Appliance will ignite and run continuously in the HI flame setting, with no adjustment in flame output. This mode of operation is primarily used for initial installation or power outage operation with battery backup.

   REMOTE Position: Appliance will initiate commands from an optional wired wall switch and/or the wireless remote (RC300).

2. If using a wired wall switch with the module in REMOTE mode, the flame output can be adjusted with the HI/LO selector switch on the module. See Figure 2.4. Note that the flame HI/LO selector switch will become inactive once an optional remote control (RC200/RC300) is programmed to the control module. Note that the control module will always ignite the fireplace on HI and remain so for the initial 10 seconds of operation. If the HI/LO is switched to the LO position, the flame output will automatically drop to the lowest setting after the flame has been established for 10 sec. After this 10 second period, the flame can be adjusted from HI to LO with the switch.
3. The control module has safety feature that automatically shuts down the fireplace after 9 hours of continuous operation without receiving a command from the RC300 remote.
4. If you intend to use both a wired wall switch and the optional RC200/RC300 remote control to operate your fireplace, the wall switch will override any commands given by the remote.
5. **Module Reset**

   This module may lock-out under certain conditions. When this occurs, the appliance will not ignite or respond to commands. The module will go into lock-out mode by emitting three audible beeps, then continuously displaying a RED/GREEN error code at its status indicator LED.

- Locate the module selector switch. (See Figure 2.4).
- Set the module selector switch to the OFF position.
- Wait five (5) minutes to allow possible accumulated gas to clear.
- Set the module selector switch to ON or REMOTE position.
- Start the appliance.

WARNING! Risk of Explosion! DO NOT *reset the module more than one time within a five minute time period. Gas may accumulate in firebox. Call a qualified service technician.*

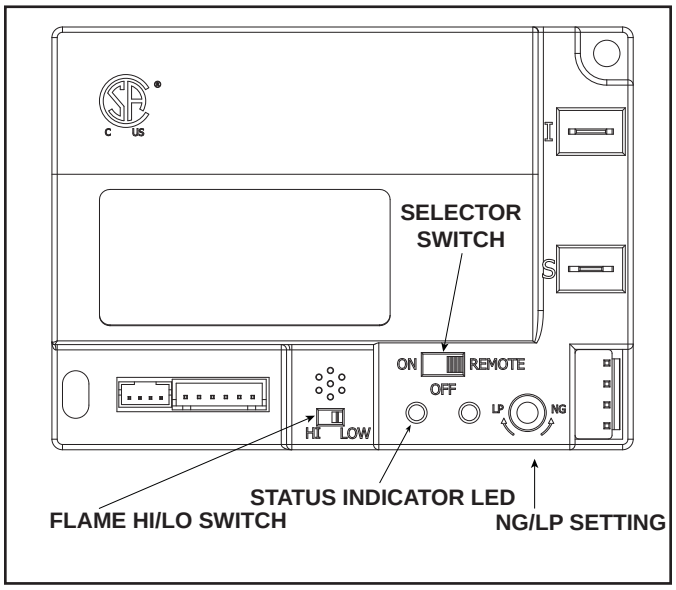


Figure 2.4 Control Module

Nine Hour Safety Shutdown Feature
This appliance has a safety feature that automatically shuts down the fireplace after 9 hours of continuous operation without receiving a command from the RC300 remote.

J. Before Lighting Fireplace

Before operating this fireplace for the first time, **have a qualified service technician**:

- Verify all shipping materials have been removed from inside and/or underneath the firebox.
- Review proper placement of logs, ember material and/or other decorative materials.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position and that the integral barrier is in place.

WARNING! Risk of Fire or Asphyxiation! DO NOT *operate fireplace with fixed glass assembly removed.*

K. Lighting Instructions (IPI)

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the burner. **DO NOT** try to light the burner by hand.

B. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- **DO NOT** try to light any appliance.
- **DO NOT** touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. DO NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING:

DO NOT CONNECT LINE VOLTAGE (110/120 VAC OR 220/240 VAC) TO THE CONTROL VALVE.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

If not installed, operated, and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or fuel combustion which are known to the State of California to cause cancer, birth defects, or other reproductive harm.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

CAUTION:

Hot while in operation. **DO NOT** touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

DO NOT operate the appliance with fixed glass assembly removed, cracked or broken. Replacement of the fixed glass assembly should be done by a licensed or qualified service person.

NOT FOR USE WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

Also Certified for Installation in a Bedroom or a Bedsitting Room.

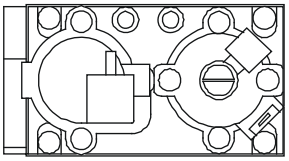
For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

For additional information on operating your Hearth & Home Technologies fireplace, please refer to www.fireplaces.com.

LIGHTING INSTRUCTIONS (IPI)

1. This appliance is equipped with an ignition device which automatically lights the burner. **DO NOT** try to light the burner by hand.

GAS VALVE



2. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the Safety Information located on the left side of this label. If you do not smell gas, go to next step.

3. To light the burner:

Equipped with wall switch: Turn ON/OFF switch to ON.

Equipped with remote or wall control: Press ON or FLAME button.

Equipped with thermostat: Set temperature to desired setting.

4. If the appliance does not light after three tries, call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Equipped with wall switch: Turn ON/OFF switch to OFF.

Equipped with remote or wall control: Press OFF button.

Equipped with thermostat: Set temperature to lowest setting.

2. Service technician should turn off electric power to the control when performing service.

593-913G

Final inspection by _____

L. After Fireplace is Lit

Initial Break-in Procedure

- The fireplace should be run three to four hours continuously on high.
- Turn the fireplace off and allow it to completely cool.
- Remove fixed glass assembly. See Section 14.H.
- Clean fixed glass assembly. See Section 3.
- Replace the fixed glass assembly and run continuously on high an additional 12 hours.

This cures the materials used to manufacture the fireplace.

NOTICE! Open windows for air circulation during fireplace break-in.

- *Some people may be sensitive to smoke and odors.*
- *Smoke detectors may activate.*

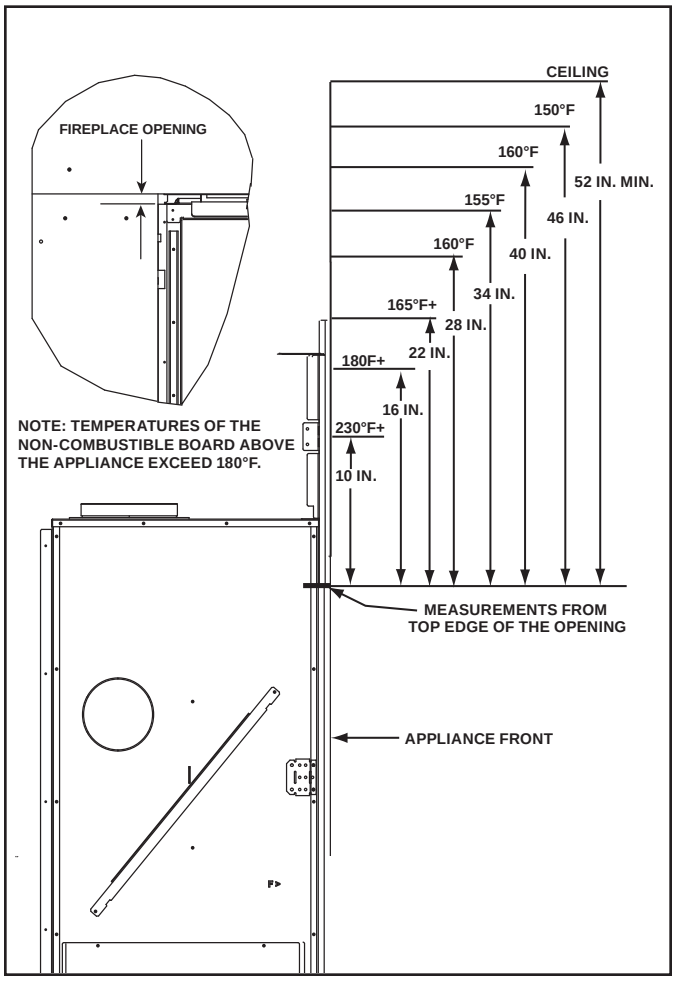


Figure 2.5 Wall Surface Temperatures

M. Frequently Asked Questions

ISSUE	SOLUTIONS
Condensation on the glass	This is a result of gas combustion and temperature variations. As the fireplace warms, this condensation will disappear.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the fireplace is allowed to burn for 20 to 40 minutes.
Odor from fireplace	When first operated, this fireplace may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing. Odor may also be released from finishing materials and adhesives used around the fireplace.
Film on the glass	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3 to 4 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as gas fireplace glass cleaner may be necessary. See your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the fireplace.
Is it normal to see the pilot flame burn continually?	In an intermittent pilot ignition system (IPI), the pilot flame should turn off when appliance is turned off. Some optional control systems available with IPI models may allow pilot flame to remain lit.

3 Maintenance and Service

Any safety screen or guard removed for servicing must be replaced prior to operating the fireplace.

When properly maintained, your fireplace will give you many years of trouble-free service. We recommend annual service by a qualified service technician.

A. Maintenance Tasks-Homeowner

Installation and repair should be done by a qualified service technician only. The fireplace should be inspected before use and at least annually by a professional service person.

The following tasks may be performed annually by the homeowner. If you are uncomfortable performing any of the listed tasks, please call your dealer for a service appointment.

More frequent cleaning may be required due to lint from carpeting or other factors. Control compartment, burner and circulating air passageway of the fireplace must be kept clean.

CAUTION! Risk of Burns! *The fireplace should be turned off and cooled before servicing.*

Glass Cleaning

(Exterior of Installed Glass Only)

Frequency: Seasonally

By: Homeowner

Tools Needed: Protective gloves, ceramic glass cleaner, drop cloth and a stable work surface.

WARNING! Risk of Injury! *Glass installation and removal must be performed only by a qualified service technician.*

- Homeowner may only clean outsides of glass.
- Call your dealer for a service appointment to have inside of glass cleaned.

CAUTION! Glass is breakable.

- *Avoid striking, scratching or slamming glass*
- *Avoid abrasive cleaners*
- ***DO NOT*** *clean glass while it is hot*

- Clean glass with a non-abrasive commercially available ceramic glass cleaner.

NOTICE! Use only glass cleaner compatible with ceramic glass. *Other types of glass cleaner may damage the glass surface when exposed to high temperatures.*

- Light deposits: Use a soft cloth with soap and water
- Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer)

Doors, Surrounds, Fronts

Frequency: Annually

By: Homeowner

Tools needed: Protective gloves, stable work surface

- Assess condition of screen and replace as necessary.
- Inspect for scratches, dents or other damage and repair as necessary.
- Check that louvers are not blocked.
- Vacuum and dust surfaces.

Remote Control (Optional)

Frequency: Seasonally

By: Homeowner

Tools needed: Replacement batteries and remote control instructions.

- Locate remote control transmitter and receiver.
- Verify operation of remote. Refer to remote control operation instructions for proper calibration and setup procedure.
- Replace batteries as needed in remote transmitters.
- Place remote control out of reach of children.

If not using your fireplace for an extended period of time (summer months, vacations/trips, etc), to prevent unintended operation:

- Remove batteries from remote controls.
- Turn the ON/OFF/REMOTE switch on the control module to OFF.

B. Maintenance Tasks-Qualified Service Technician

The following tasks must be performed by a qualified service technician.

Glass Cleaning

(Exterior and Interior of Installed Glass)

Frequency: Seasonally

By: Qualified Service Technician

Tools Needed: Protective gloves, ceramic glass cleaner, drop cloth and a stable work surface.

WARNING! Risk of Injury! *Glass installation and removal must be performed only by a qualified service technician.*

CAUTION! Handle fixed glass assembly with care. *Glass is breakable.*

- *Avoid striking, scratching or slamming glass*
- *Avoid abrasive cleaners*
- ***DO NOT** clean glass while it is hot*

NOTICE! Use only glass cleaner compatible with ceramic glass. *Other types of glass cleaner may damage the glass surface when exposed to high temperatures.*

- Prepare a work area large enough to accommodate fixed glass assembly and door frame by placing a drop cloth on a flat, stable surface.

Note: Fixed glass assembly and gasketing may have residue that can stain carpeting or floor surfaces.

- Remove door or decorative front from fireplace and set aside on work surface.
- See Section 14.H for instructions to remove fixed glass assembly.
- Clean glass with a non-abrasive commercially available cleaner.
  - Light deposits: Use a soft cloth with soap and water.
  - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer).
- See Section 14.H for instructions to replace the fixed glass assembly.
- Reinstall door or decorative front.

Gasket Seal and Glass Assembly Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, drop cloth and a stable work surface.

- Inspect gasket seal and its condition.
- Inspect fixed glass assembly for scratches and nicks that can lead to breakage when exposed to heat.
- Confirm there is no damage to glass or glass frame. Replace as necessary.
- Verify that fixed glass assembly is properly retained and attachment components are intact and not damaged. Replace as necessary.

Logs

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves.

- Inspect for damaged or missing logs. Replace as necessary. Refer to Section 14.G for log placement instructions.
- Verify correct log placement and no flame impingement causing sooting. Correct as necessary.

Firebox

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, sandpaper, steel wool, cloths, mineral spirits, primer and touch-up paint.

- Inspect for paint condition, warped surfaces, corrosion or perforation. Sand and repaint as necessary.
- Replace fireplace if firebox has been perforated.

Control Compartment and Firebox Top

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, vacuum cleaner, dust cloths

- Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
- Remove all foreign objects.
- Verify unobstructed air circulation.

Burner Ignition and Operation

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, vacuum cleaner, whisk broom, flashlight, voltmeter, indexed drill bit set, and a manometer.

- Verify burner is properly secured and aligned with pilot or igniter.
- Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
- Verify batteries have been removed from battery back-up IPI systems to prevent premature battery failure or leaking.
- Check for smooth lighting and ignition carryover to all ports. Verify that there is no ignition delay.
- Inspect for lifting or other flame problems.
- Verify air shutter setting is correct. See Section 14.I for required air shutter setting. Verify air shutter is clear of dust and debris.
- Inspect orifice for soot, dirt and corrosion. Verify orifice size is correct. See Service Parts List for proper orifice sizing.
- Verify manifold and inlet pressures. Adjust regulator as required.
- Inspect pilot flame pattern and strength. See Figure 3.1 for proper pilot flame pattern. Clean or replace orifice spud as necessary.
- Inspect IPI flame sensing rod for soot, corrosion and deterioration. Polish with fine steel wool or replace as required.
- Verify that there is not a short in flame sense circuit by checking continuity between pilot hood and flame sensing rod. Replace pilot as necessary.

Figure 3.1 IPI Pilot Flame Patterns

A. Typical Appliance System

NOTICE: *Illustrations and photos reflect typical installations and are for design purposes only. Illustrations/diagrams are not drawn to scale. Actual product may vary from pictures in manual.*

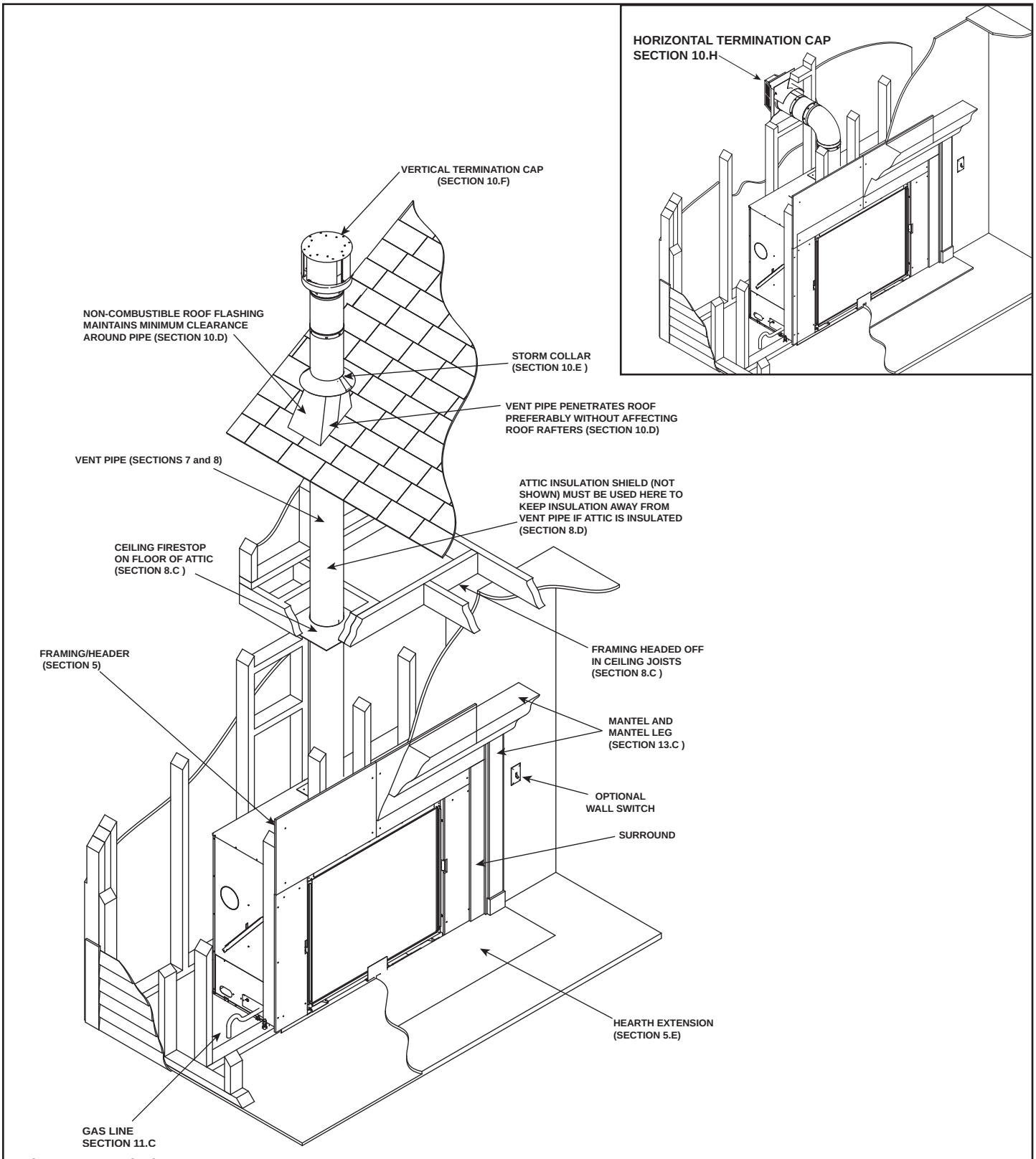


Figure 4.1 Typical System

B. Design and Installation Considerations

Heatilator direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional outside air source is required.

Installation MUST comply with local, regional, state and national codes and regulations. Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping requirements.
- Electrical wiring requirements.
- Framing and finishing details.
- Whether optional accessories—devices such as a wall switch or remote control—are desired.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

C. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Tape measure	Framing material
Pliers	Hammer
Phillips screwdriver	Manometer
Gloves	Framing square
Voltmeter	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses
Level	Reciprocating saw

Flat blade screwdriver

Non-corrosive leak check solution

1/2 - 3/4 in. length, #6 or #8 Self-drilling screws

Caulking material (300ºF minimum continuous exposure rating)

D. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative doors and fronts may be shipped in separate packages.
- If packaged separately, the log set and appliance grate must be installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**

WARNING! Risk of Fire or Explosion! *Damaged parts could impair safe operation.* ***DO NOT i****nstall damaged, incomplete or substitute components. Keep appliance dry.*

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

Any such action may cause a fire hazard.

WARNING! Risk of Fire, Explosion or Electric Shock! ***DO NOT*** *use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.*

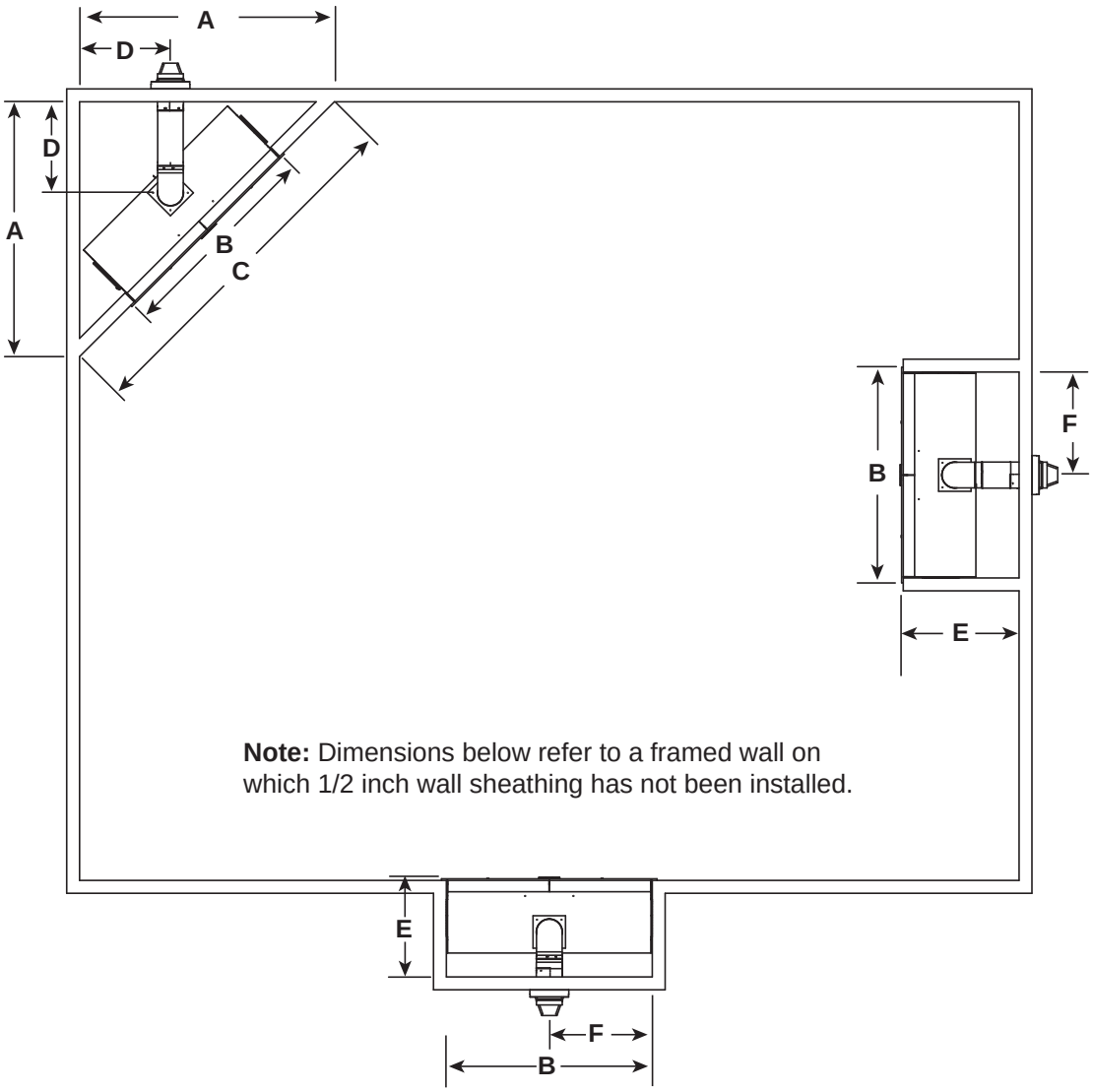
5 Framing and Clearances

A. Selecting Appliance Location

When selecting a location for the appliance it is important to consider the required clearances to walls (see Figure 5.1).

WARNING! Risk of Fire or Burns! *Provide adequate clearance around air openings and for service access.* ***Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.***

NOTICE: *Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/diagrams are not drawn to scale. Actual installation may vary due to individual design preference.*



		A	B	C	D	E	F
HEIR36	Inches	74-1/4	59-1/2	105	26-1/2	23-1/2	29-3/4
	Millimeters	1886	1511	2667	673	597	756
HEIR42	Inches	78-9/16	65-9/16	111-1/16	28-5/8	23-1/2	32-13/16
	Millimeters	1995	1665	2821	727	597	833
HEIR50	Inches	84-1/4	73-9/16	119-1/8	31-1/2	23-1/2	36-13/16
	Millimeters	2140	1868	3026	800	597	935

Figure 5.1 Appliance Locations

B. Constructing the Appliance Chase

A chase is a vertical box-like structure built to enclose the gas appliance and/or its vent system. In cooler climates the vent should be enclosed inside the chase.

NOTICE: *Treatment of ceiling firestops and wall shield firestops and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, you MUST check local building codes to determine the requirements to these steps.*

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issue, the inside surfaces may be sheetrocked and taped for maximum air tightness.

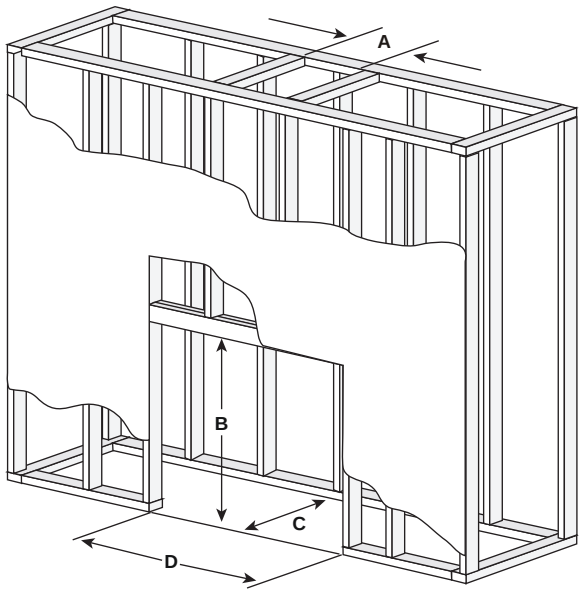
To further prevent drafts, the wall shield and ceiling firestops should be caulked with caulk with a minimum of 300ºF continuous exposure rating to seal gaps. Gas line holes and other openings should be caulked with caulk with a minimum of 300ºF continuous exposure rating or stuffed with unfaced insulation. If the appliance is being installed on a cement surface, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

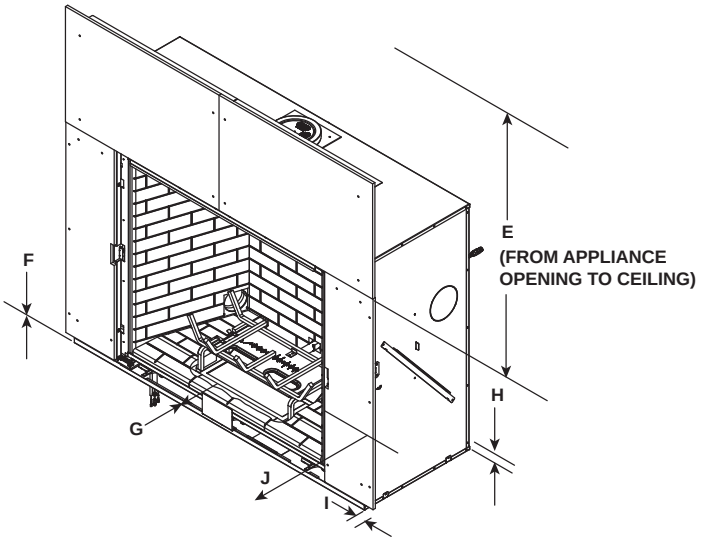
C. Clearances

NOTICE: *Install appliance on hard metal or wood surfaces extending full width and depth.* ***DO NOT*** *install directly on carpeting, vinyl, tile or any combustible material other than wood.*

WARNING! Risk of Fire! *Maintain specified air space clearances to appliance and vent pipe:*

- Insulation and other materials must be secured to prevent accidental contact.
- The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.
- Failure to maintain airspace may cause overheating and a fire.





		* MINIMUM FRAMING DIMENSIONS									
		A	B	C	D	E	F	G	H	I	J
		Rough Opening (Vent Pipe)	Rough Opening (Height)	Rough Opening (Depth)	Rough Opening (Width)	Clearance to Ceiling	Combustible Floor	Combustible Flooring	Behind Appliance	Sides of Appliance	Front of Appliance
HEIR36	Inches	10	56	24	59-1/2	52	0	See Section 5.E.	1	1	36
	Millimeters	254	1422	610	1511	1321	0		25	25	914
HEIR42	Inches	10	61	24	65-9/16	52	0		1	1	36
	Millimeters	254	1549	610	1665	1321	0		25	25	914
HEIR50	Inches	10	65	24	73-9/16	52	0		1	1	36
	Millimeters	254	1651	610	1868	1321	0		25	25	914

* Adjust framing dimensions for interior sheathing (such as sheetrock)

Figure 5.2 Clearances to Combustibles

Non-Combustible Zone

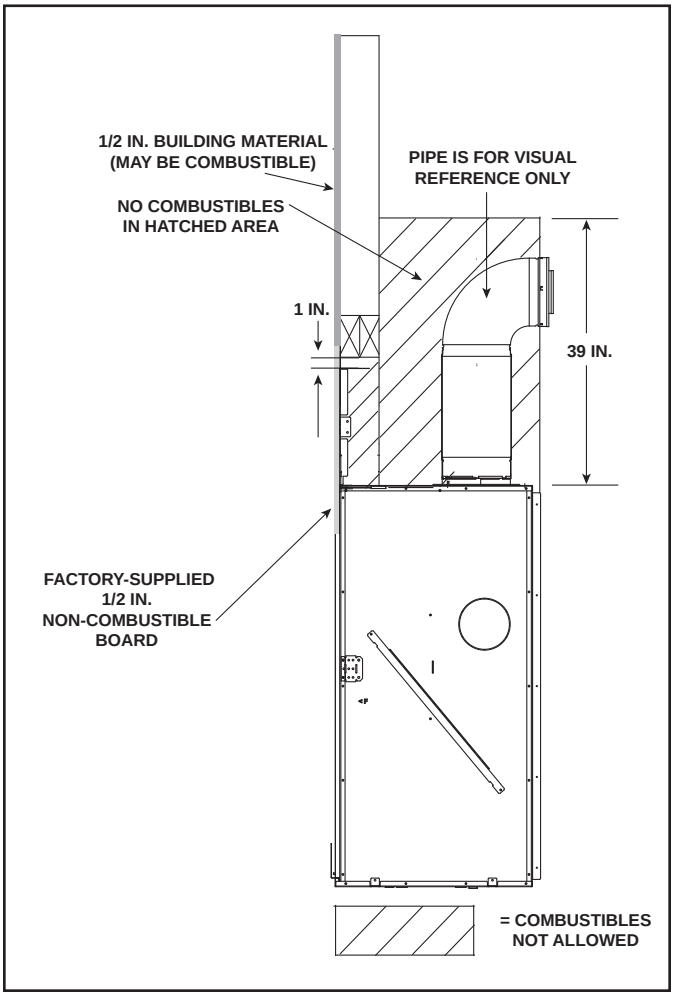


Figure 5.3 Allowable Combustible Mantel Projections

D. Mantel and Wall Projections

WARNING! Risk of Fire! *Comply with all minimum clearances as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc).*

When installing a mantel, provisions must be made in order to secure the mantel to the adjacent framing materials. For example, lintel brackets or lag bolts may be considered for this purpose.

Combustible Mantel Legs or Wall Projections

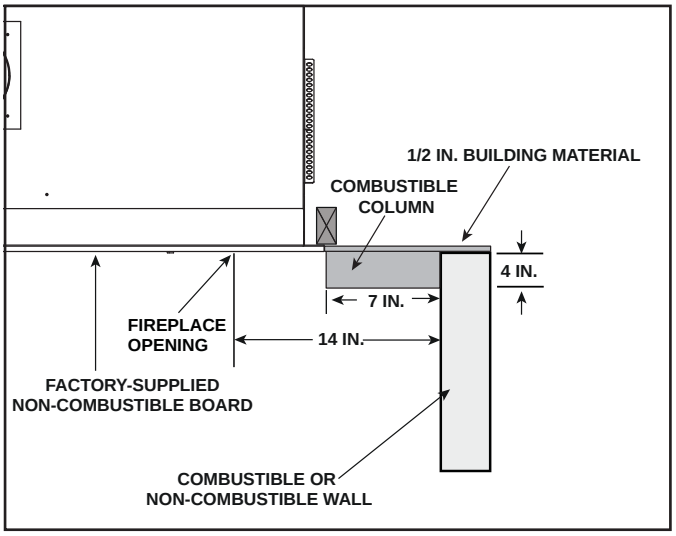


Figure 5.4 Combustible Mantel Leg and Wall Projections

Non-Combustible Mantel Legs or Wall Projections

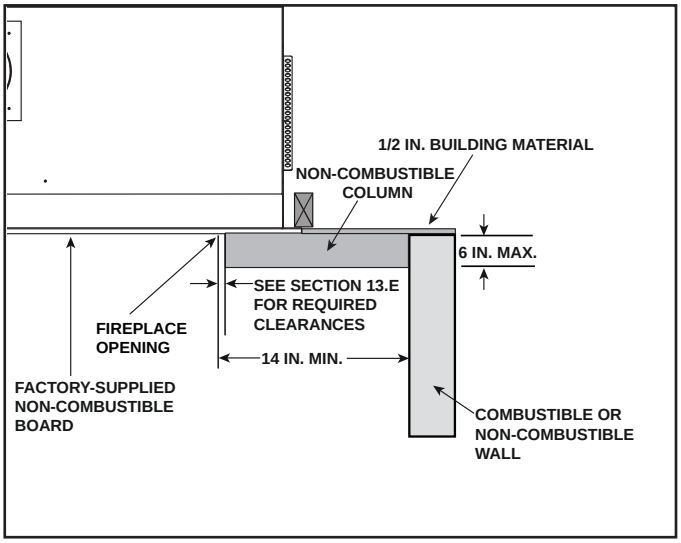
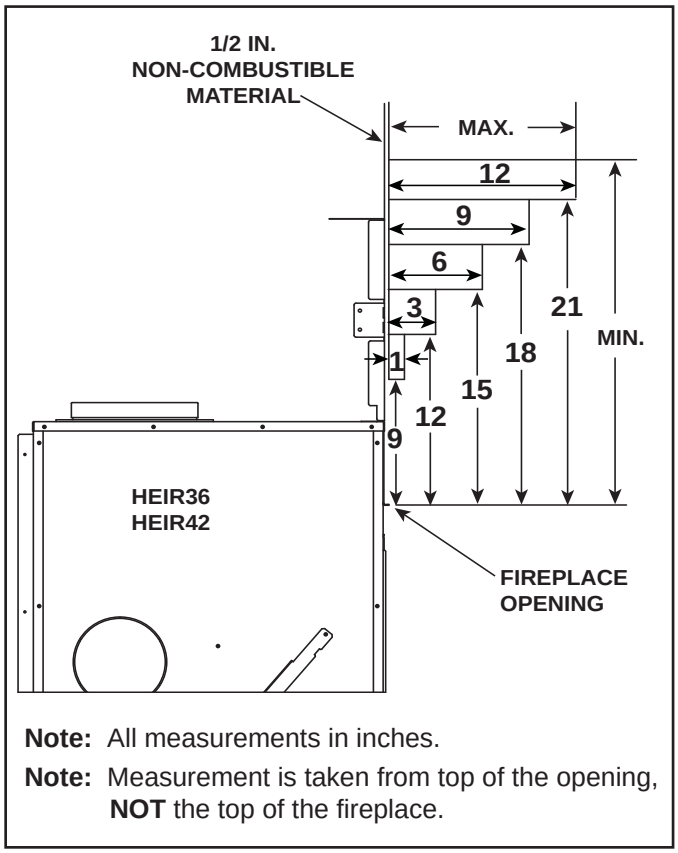


Figure 5.5 Non-Combustible Mantel Leg and Wall Projections

Combustible Mantel Projections

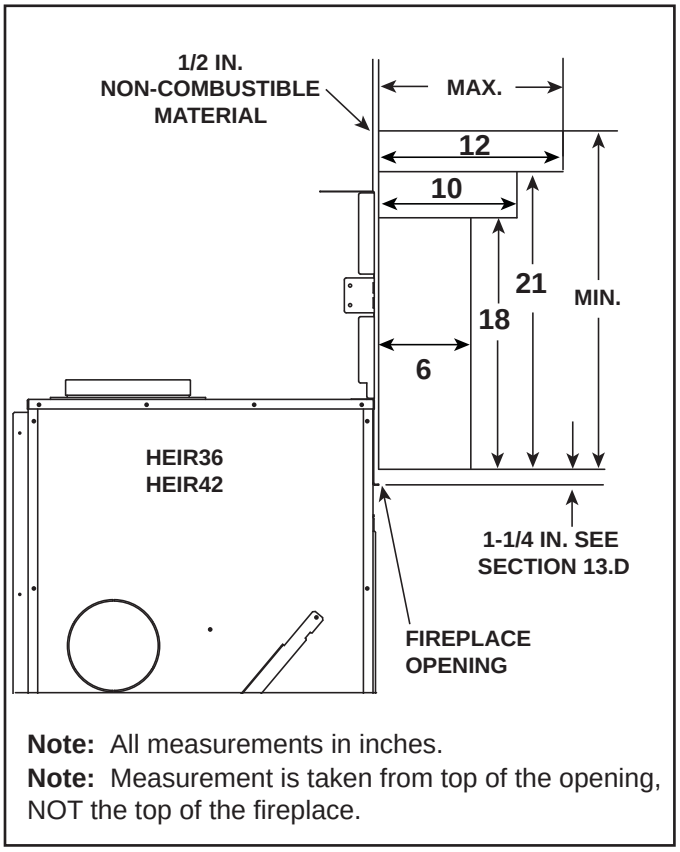


Note: All measurements in inches.

Note: Measurement is taken from top of the opening, **NOT** the top of the fireplace.

Figure 5.6 Combustible Mantel Allowance - HEIR36, HEIR42

Non-Combustible Mantel Projections

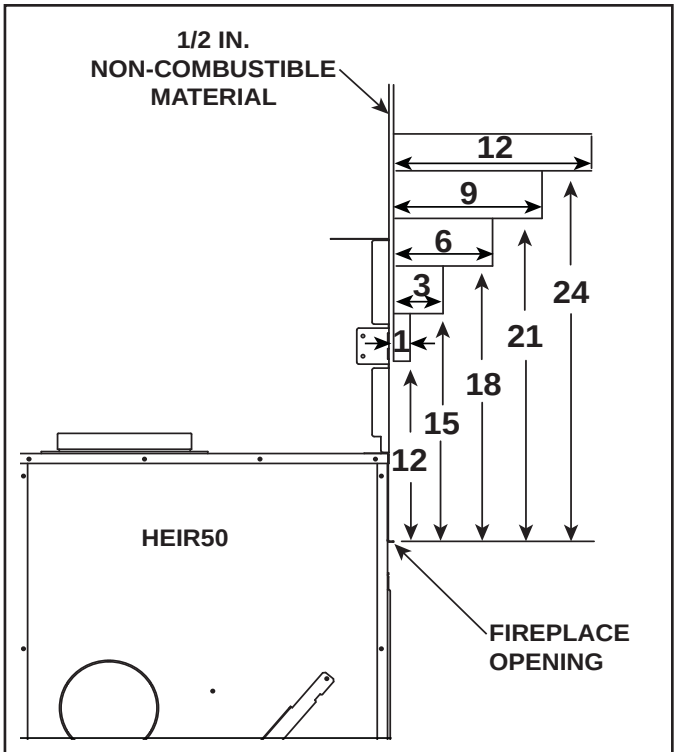


Note: All measurements in inches.

Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Figure 5.8 Non-Combustible Mantel Allowance - HEIR36, HEIR42

Combustible Mantel Projections

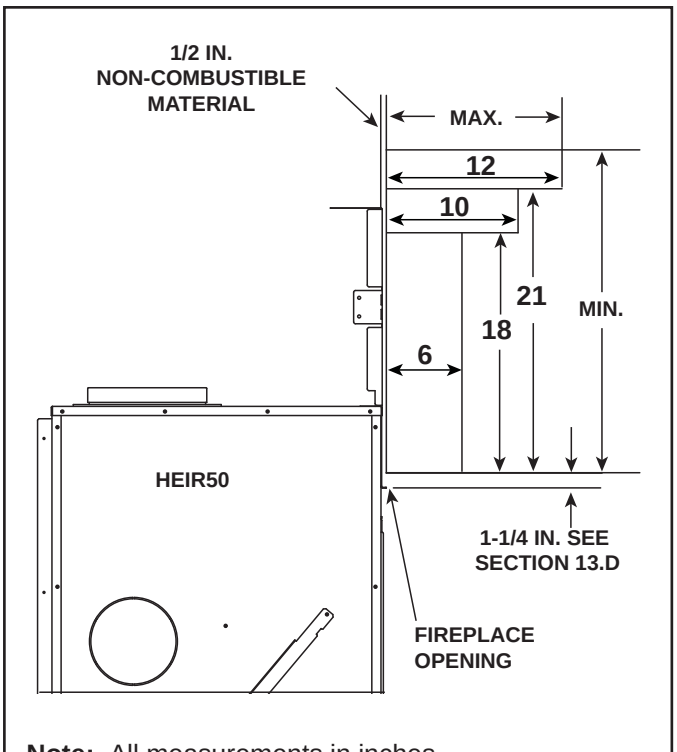


Note: All measurements in inches.

Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Figure 5.7 Combustible Mantel Allowance - HEIR50

Non-Combustible Mantel Projections



Note: All measurements in inches.

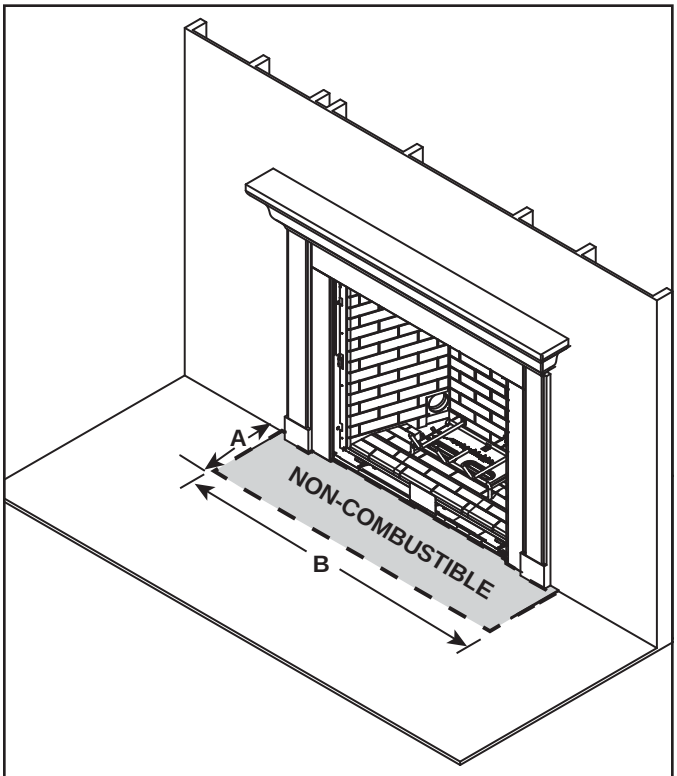
Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Figure 5.9 Non-Combustible Mantel Allowance - HEIR50

E. Hearth Extension

➔ ***WARNING! Risk of Fire!*** *Non-combustible hearth extension may be required when appliance is installed on combustible surface.*

- Hearth extension must be non-combustible and serves to protect combustible floors in front of appliance. See Figure 5.11.
- The base of the fireplace may sit on a combustible surface. See Figure 5.11. The area in front of the appliance must be protected by a non-combustible hearth extension, unless the appliance is raised a minimum of three inches above the combustible floor or hearth. See Figure 5.11 and Figure 5.12.



MODEL	A		B	
	in.	mm	in.	mm
HEIR36	12	305	57-1/4	1454
HEIR42	12	305	63-5/16	1608
HEIR50	12	305	71-5/16	1811

Figure 5.10 Non-Combustible Hearth Extension Dimensions

NOTICE: DO NOT *install a hearth that is greater than one inch thick. Hearth will interfere with installation of glass assembly. Total hearth height must not exceed one inch from bottom of appliance when appliance is installed directly on floor (including mortar, backer material, etc.)*

If a hearth greater than one inch in thickness is desired, the appliance must be raised by the equivalent height to ensure that the hearth does not interfere with the installation of the glass assembly required for fireplace operation. See Figure 5.11.

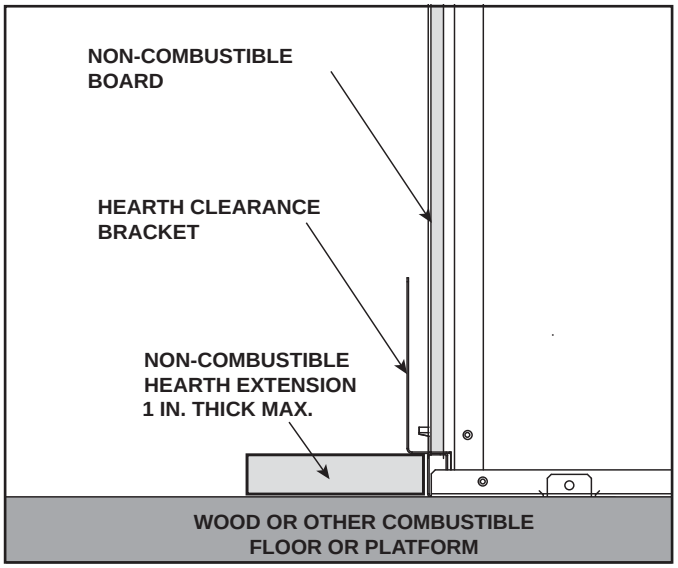


Figure 5.11 Appliance Installed on Combustible Surface
Non-Combustible Hearth Extension REQUIRED. ➔

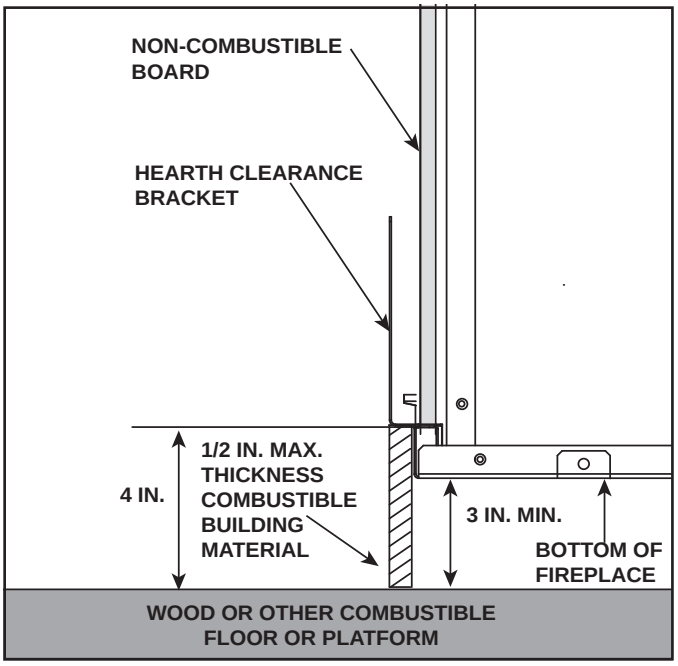


Figure 5.12 Appliance Raised a Minimum of 3 Inches Above Combustible Surface.
Non-Combustible Hearth Extension NOT REQUIRED. ➔

6 Termination Locations

A. Vent Termination Minimum Clearances

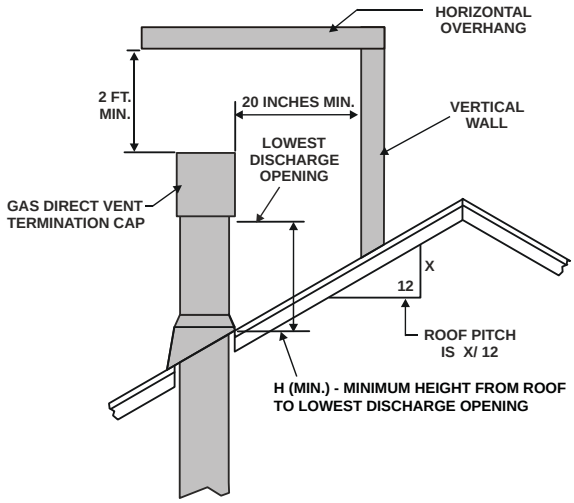
⚠ WARNING

Fire Risk.

Maintain vent clearance to combustibles as specified.

- **DO NOT** pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause overheating and fire.

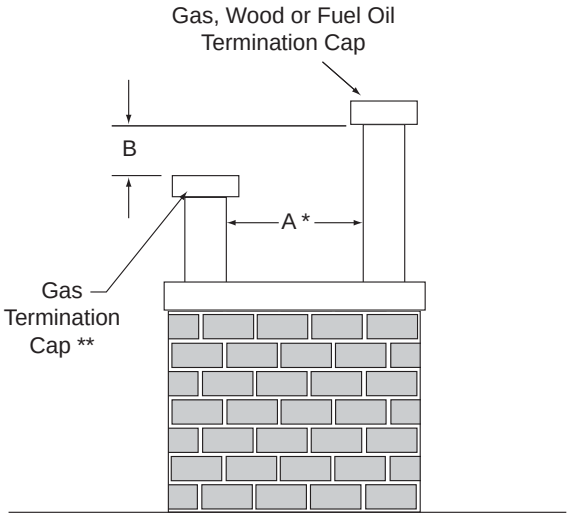


Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*
Over 6/12 to 7/12	1.25*
Over 7/12 to 8/12	1.5*
Over 8/12 to 9/12	2.0*
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8.0

* 3 foot minimum in snow regions

Figure 6.1 Minimum Height From Roof To Lowest Discharge Opening

A	B
6 in. (minimum) up to 20 in. *152 mm/508 mm*	18 in. minimum *457 mm*
20 in. and over	0 in. minimum



* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

** In a staggered installation with both gas and wood or fuel oil terminations, the wood or fuel oil termination cap must be higher than the gas termination cap.

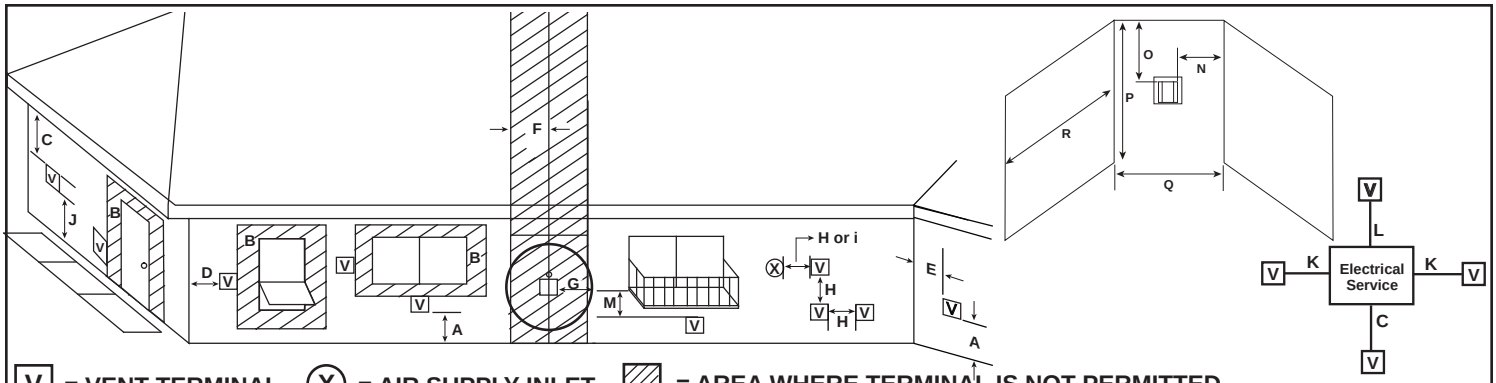
Figure 6.2 Staggered Termination Caps

NOTICE: HEIR50 Models Only

Horizontal vent terminations are NOT approved for installation with vinyl siding or vinyl soffits. Permanent damage to vinyl siding or vinyl soffits may occur.

NOTICE: HEIR36 and HEIR42 Only:

Horizontal vent terminations ARE approved for installation with vinyl siding and/or vinyl soffits provided the VPK-DV (vinyl protector kit) is installed. Permanent damage to vinyl siding or vinyl soffits may occur.



V = VENT TERMINAL **(X) = AIR SUPPLY INLET** **= AREA WHERE TERMINAL IS NOT PERMITTED**

A = 12 inches.....clearances above grade, veranda, porch, deck or balcony

B = 12 inches.....clearance to window or door that may be opened, or to permanently closed window

C = 18 inches.....clearance below an unventilated/ ventilated soffit with non-vinyl siding

= 18 inches.....clearance below an unventilated/ventilated soffit with vinyl siding. Requires a vinyl protector kit (VPK-DV). HEIR50 is not approved for use with vinyl siding or vinyl soffits.

= 42 inches.....clearance below a vinyl soffit with non-vinyl siding. HEIR50 is not approved for use with vinyl siding or vinyl soffits.

= 42 inches.....clearance below a vinyl soffit with vinyl siding. Requires a vinyl protector kit (VPK-DV). HEIR50 is not approved for use with vinyl siding or vinyl soffits.

D = 6 inches.....clearance to outside corner

E = 6 inches.....clearance to inside corner

F = 3 ft. (Canada).....not to be installed above a gas meter/regulator assembly within 3 feet horizontally from the center-line of the regulator

G = 3 ft.....clearance to gas service regulator vent outlet

H = 12 inches.....clearance to non-mechanical (unpowered) air supply inlet, combustion air inlet or direct-vent termination

i = 3 ft. (U.S.A.)
6 ft. (Canada).....clearance to a mechanical (powered) air supply inlet

All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below termination.

J = 7 ft. ..... On **public** property: clearance above paved sidewalk or a paved driveway.

A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

K = 6 inches.....clearance from sides of electrical service

L = 12 inches.....clearance above electrical service

Location of the vent termination must not interfere with access to the electrical service.

M = 24 inches .....clearance under veranda, porch, deck, balcony or overhang
42 inches ..... vinyl or composite overhang

Permitted when veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor.

Figure 6.3 Minimum Clearances for Termination

Covered Alcove Applications

(Spaces open only on one side and with an overhang)

HEIR50 is not approved for use with vinyl siding or vinyl soffits.

N = 6 inches .....non-vinyl sidewalls
12 inches .....vinyl sidewalls

O = 18 inches .....clearance below an unventilated/ventilated soffit with non-vinyl siding

= 18 inches.....clearance below an unventilated/ventilated soffit with vinyl siding. Requires a vinyl protector kit (VPK-DV).

= 42 inches.....clearance below a vinyl soffit with non-vinyl siding

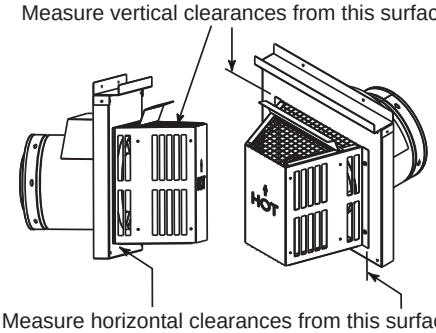
= 42 inches.....clearance below a vinyl soffit with vinyl siding. Requires a vinyl protector kit (VPK-DV).

P = 8 ft.

	Q_{MIN}	R_{MAX}
1 cap	3 feet	2 x Q_{ACTUAL}
2 caps	6 feet	1 x Q_{ACTUAL}
3 caps	9 feet	2/3 x Q_{ACTUAL}
4 caps	12 feet	1/2 x Q_{ACTUAL}

Q_{MIN} = # termination caps x 3 R_{MAX} = (2 / # termination caps) x Q_{ACTUAL}

Measure vertical clearances from this surface.



Measure horizontal clearances from this surface.

CAUTION! Risk of Burns! *Termination caps are HOT, consider proximity to doors, traffic areas or where people may pass or gather (sidewalk, deck, patio, etc.). Listed cap shields available. Contact your dealer.*

- Local codes or regulations may require different clearances.
- Vent system termination is **NOT** permitted in screened porches.
- Vent system termination is permitted in porch areas with two or more sides open.
- Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.
- Vinyl protection kits are required for use with vinyl siding.

7 Vent Information and Diagrams

A. Approved Pipe

This appliance is approved for use with Hearth & Home Technologies DVP venting systems. Refer to Section 16.B for vent component information.

DO NOT mix pipe, fittings or joining methods from different manufacturers.

The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall.

WARNING! Risk of Fire or Asphyxiation. *This appliance requires a separate vent.* ***DO NOT*** *vent to a pipe serving a separate solid fuel burning appliance.*

B. Vent Table Key

The abbreviations listed in this vent table key are used in the vent diagrams.

Symbol	Description
V_1	First section (closest to appliance) of vertical length
V_2	Second section of vertical length
H_1	First section (closest to appliance) of horizontal length
H_2	Subsequent sections of horizontal length

C. Use of Elbows

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect (see Figure 7.1).

Two 45º elbows may be used in place of one 90º elbow. On 45º runs, one foot of diagonal is equal to 8-1/2 in. (216 mm) horizontal run and 8-1/2 in. (216 mm) vertical run. A length of straight pipe is allowed between two 45º elbows (see Figure 7.1).

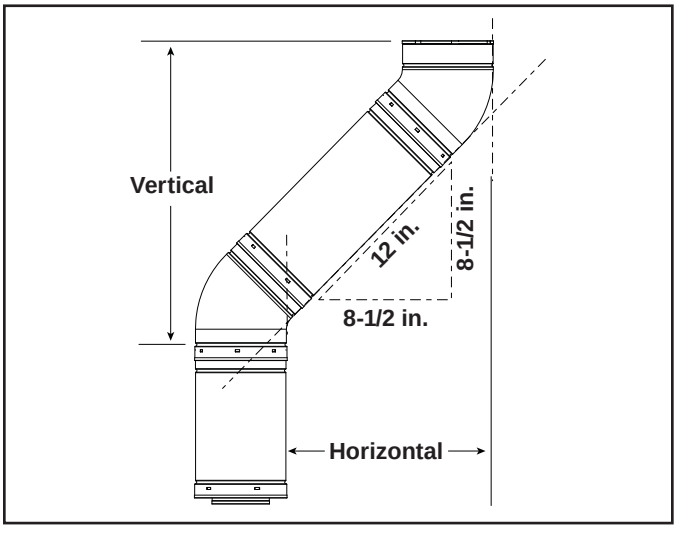
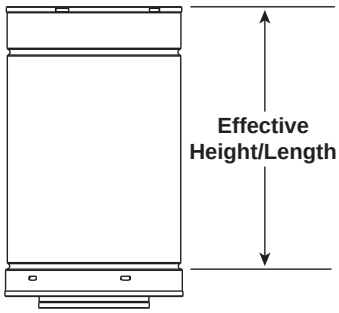


Figure 7.1

D. Measuring Standards

Vertical and horizontal measurements listed in the vent diagrams were made using the following standards.

- Pipe measurements are shown using the effective length of pipe (see Figure 7.2).
- Horizontal terminations are measured to the outside mounting surface (flange of termination cap) (see Figure 6.3).
- Vertical terminations are measured to bottom of termination cap.
- Horizontal pipe installed level with no rise.



Pipe	Effective Length	
	Inches	Millimeters
DVP4	4	102
DVP6	6	152
DVP12	12	305
DVP24	24	610
DVP36	36	914
DVP48	48	1219
DVP6A	3 to 6	76 to 152
DVP12A	3 to 12	76 to 305
DVP12MI	3 to 12	76 to 305
DVP24MI	3 to 24	76 to 610

Figure 7.2 DVP Pipe Effective Length

E. Vent Diagrams

WARNING! Risk of Fire. *This appliance requires a minimum of 24 inches of vertical venting before attaching any elbow to the appliance.* ***DO NOT*** *attach elbow directly to the appliance.*

General Rules:

- This appliance is approved for use with Hearth & Home Technologies DVP venting systems ONLY.
- When penetrating a combustible wall, a wall shield firestop must be installed.
- When penetrating a combustible ceiling, a ceiling firestop must be installed.
- This appliance requires a minimum of 24 inches of vertical pipe attached directly to the appliance starting collar before attaching a 90 degree or 45 degree elbow.

1. Top Vent - Horizontal Termination

⚠ WARNING

Fire Risk. Explosion Risk.

Do NOT pack insulation or other combustibles between ceiling firestops.

- ALWAYS maintain specified clearances around venting and firestop systems.
- Install wall shield and ceiling firestops as specified.

Failure to keep insulation or other material away from vent pipe may cause fire.

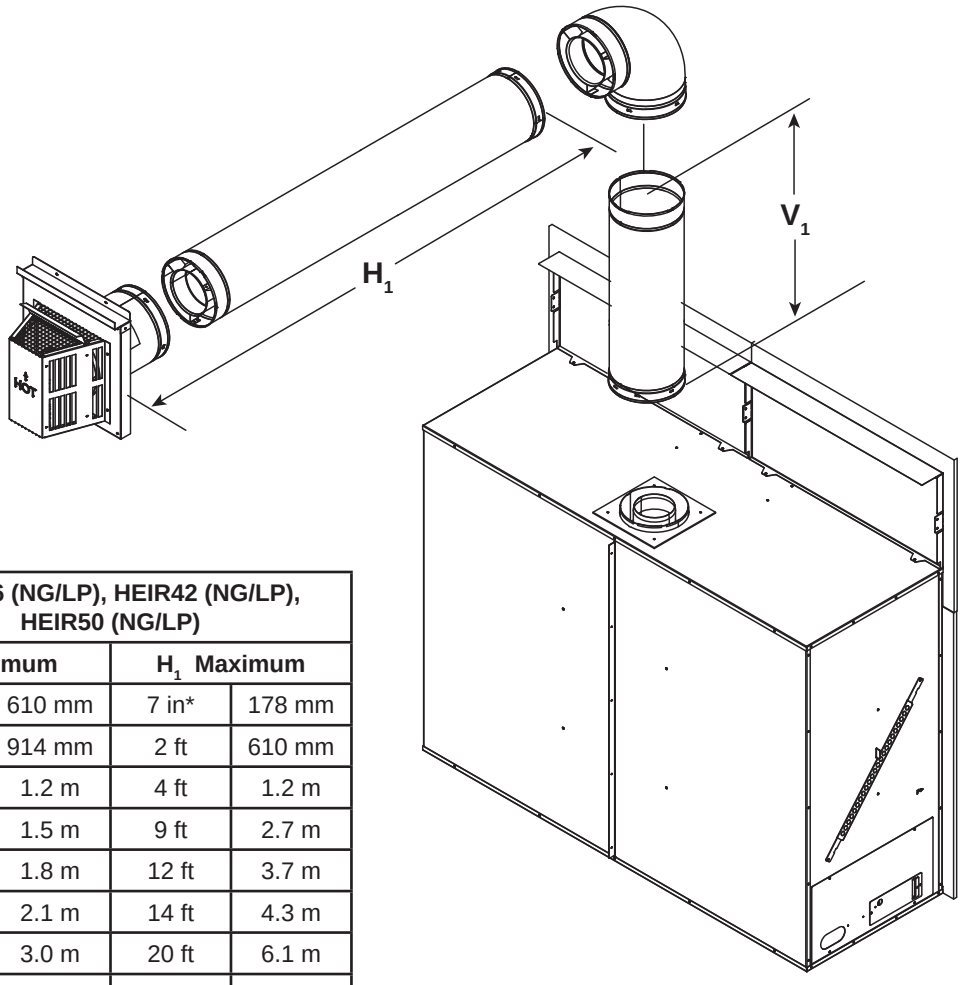
One Elbow

Note: Flue restrictor is permitted ONLY on 30 ft. minimum vertical runs with no elbows.

WARNING! Risk of Fire!

- *HEIR36(NG/LP), HEIR42(NG/LP) and HEIR50(NG/LP) models require a minimum of 24 inches of vertical venting before attaching any elbow to the appliance.*

DO NOT attach elbow directly to the appliance.



HEIR36 (NG/LP), HEIR42 (NG/LP), HEIR50 (NG/LP)			
V_1 Minimum		H_1 Maximum	
2 ft	610 mm	7 in*	178 mm
3 ft	914 mm	2 ft	610 mm
4 ft	1.2 m	4 ft	1.2 m
5 ft	1.5 m	9 ft	2.7 m
6 ft	1.8 m	12 ft	3.7 m
7 ft	2.1 m	14 ft	4.3 m
10 ft	3.0 m	20 ft	6.1 m
20 ft	6.1 m	40 ft	12.2 m
After V_1= 6 ft then H_1 = 2 x V ft Maximum V_1 + H_1 = 60 ft Maximum *when used with approved termination caps			

Figure 7.3

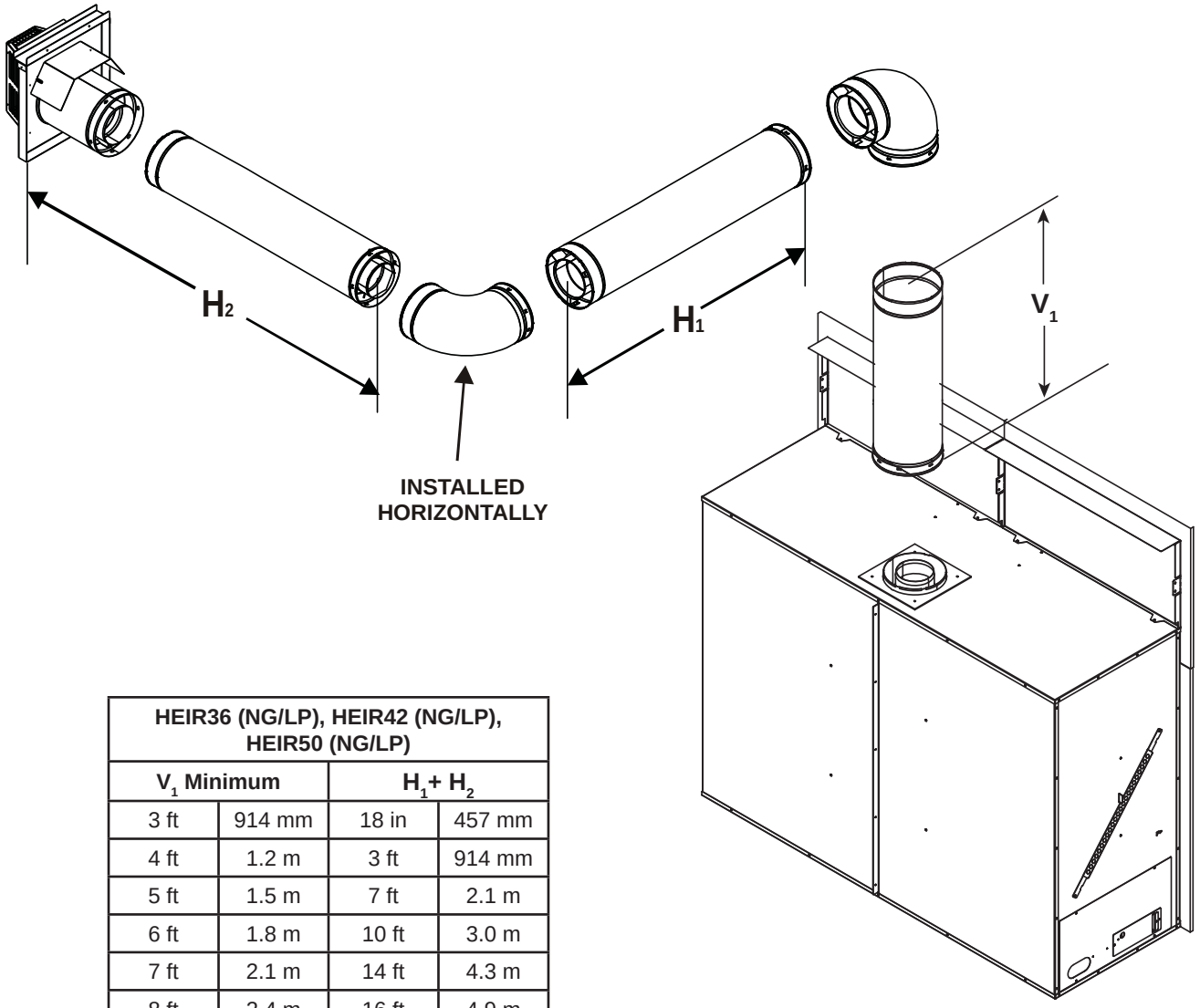
Two Elbows

Note: Flue restrictor is permitted ONLY on 30 ft. minimum vertical runs with no elbows.

WARNING! Risk of Fire!

- *HEIR36(NG/LP), HEIR42(NG/LP) and HEIR50(NG/LP) models require a minimum of 36 inches of vertical venting before attaching any elbow to the appliance for the venting configuration in Figure 7.4.*

DO NOT attach elbow directly to the appliance.



HEIR36 (NG/LP), HEIR42 (NG/LP), HEIR50 (NG/LP)			
V_1 Minimum		$H_1 + H_2$	
3 ft	914 mm	18 in	457 mm
4 ft	1.2 m	3 ft	914 mm
5 ft	1.5 m	7 ft	2.1 m
6 ft	1.8 m	10 ft	3.0 m
7 ft	2.1 m	14 ft	4.3 m
8 ft	2.4 m	16 ft	4.9 m
9 ft	2.7 m	18 ft	5.5 m
10 ft	3.0 m	20 ft	6.1 m
$V_1 + H_1 + H_2$= 60 ft Maximum $H_1 + H_2$= 20 ft Maximum			

Figure 7.4

1. Top Vent - Horizontal Termination - *(continued)*

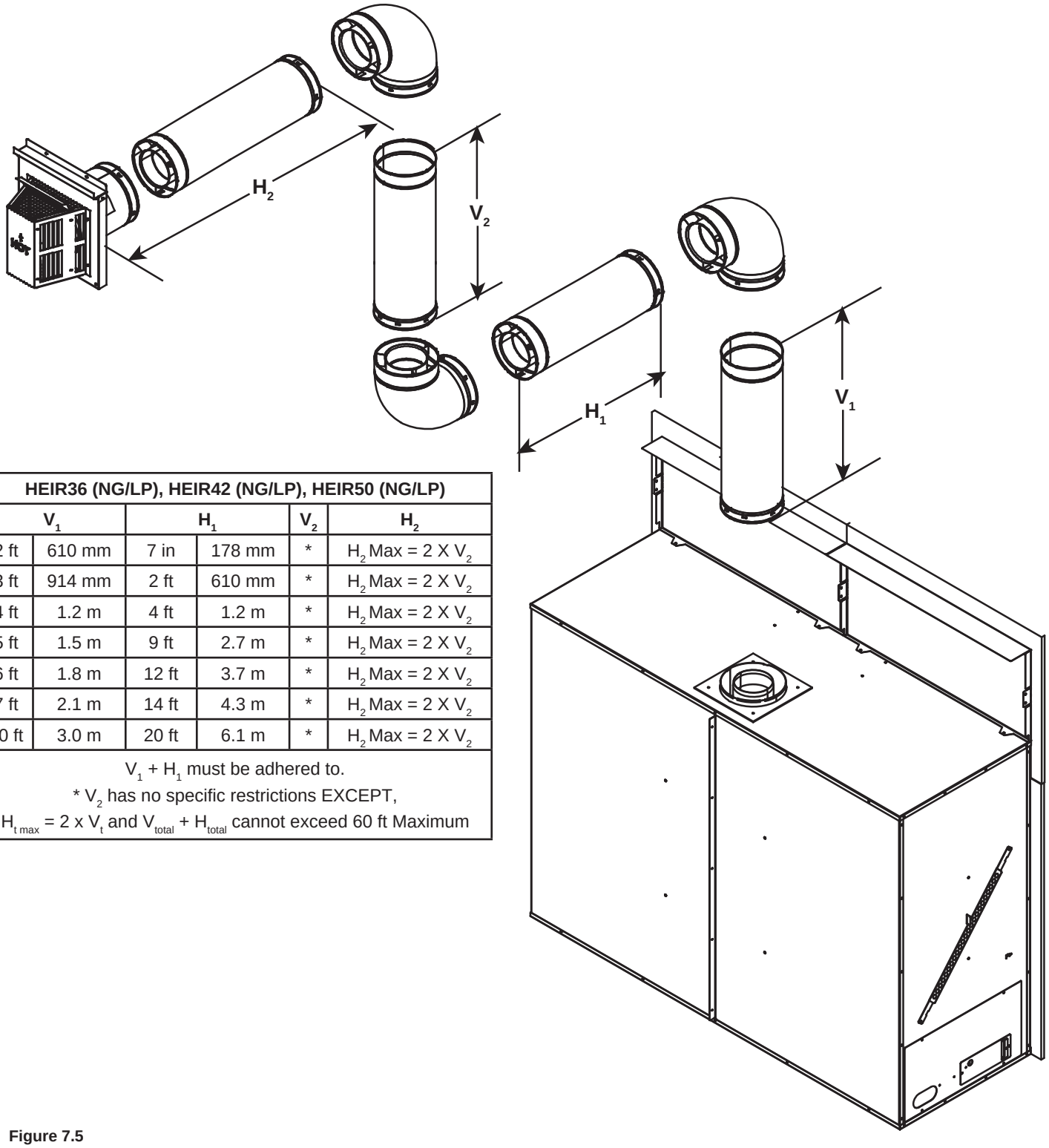
Three Elbows

Note: Flue restrictor is permitted ONLY on 30 ft. minimum vertical runs with no elbows.

WARNING! Risk of Fire!

- *HEIR36(NG/LP), HEIR42(NG/LP) and HEIR50(NG/LP) models require a minimum of 24 inches of vertical venting before attaching any elbow to the appliance.*

DO NOT attach elbow directly to the appliance.



HEIR36 (NG/LP), HEIR42 (NG/LP), HEIR50 (NG/LP)					
V_1		H_1		V_2	H_2
2 ft	610 mm	7 in	178 mm	*	H_2 Max = 2 X V_2
3 ft	914 mm	2 ft	610 mm	*	H_2 Max = 2 X V_2
4 ft	1.2 m	4 ft	1.2 m	*	H_2 Max = 2 X V_2
5 ft	1.5 m	9 ft	2.7 m	*	H_2 Max = 2 X V_2
6 ft	1.8 m	12 ft	3.7 m	*	H_2 Max = 2 X V_2
7 ft	2.1 m	14 ft	4.3 m	*	H_2 Max = 2 X V_2
10 ft	3.0 m	20 ft	6.1 m	*	H_2 Max = 2 X V_2
V_1 + H_1 must be adhered to. * V_2 has no specific restrictions EXCEPT, $H_{t\,max}$ = 2 x V_t and V_{total} + H_{total} cannot exceed 60 ft Maximum					

Figure 7.5

2. Top Vent - Vertical Termination

No Elbow

Note: Flue restrictor is permitted ONLY on 30 ft. minimum vertical runs with no elbows.

V_1 = 50 ft. Max. (15.2 m)
V_1 = 2 ft. Min. (610 mm)

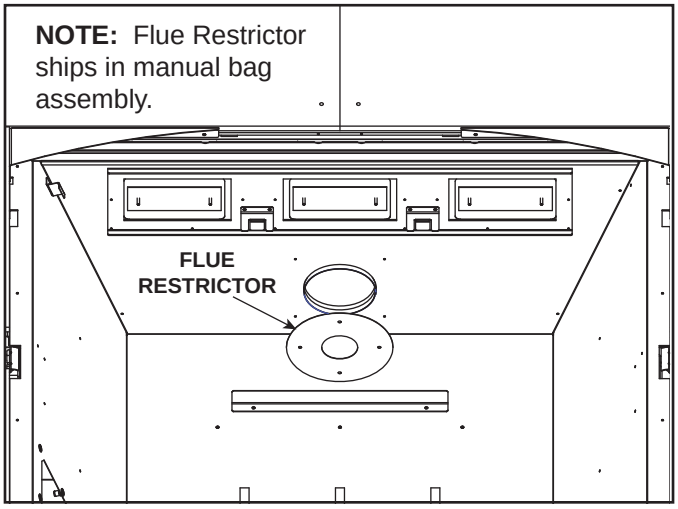


Figure 7.7 Flue Restrictor Installation

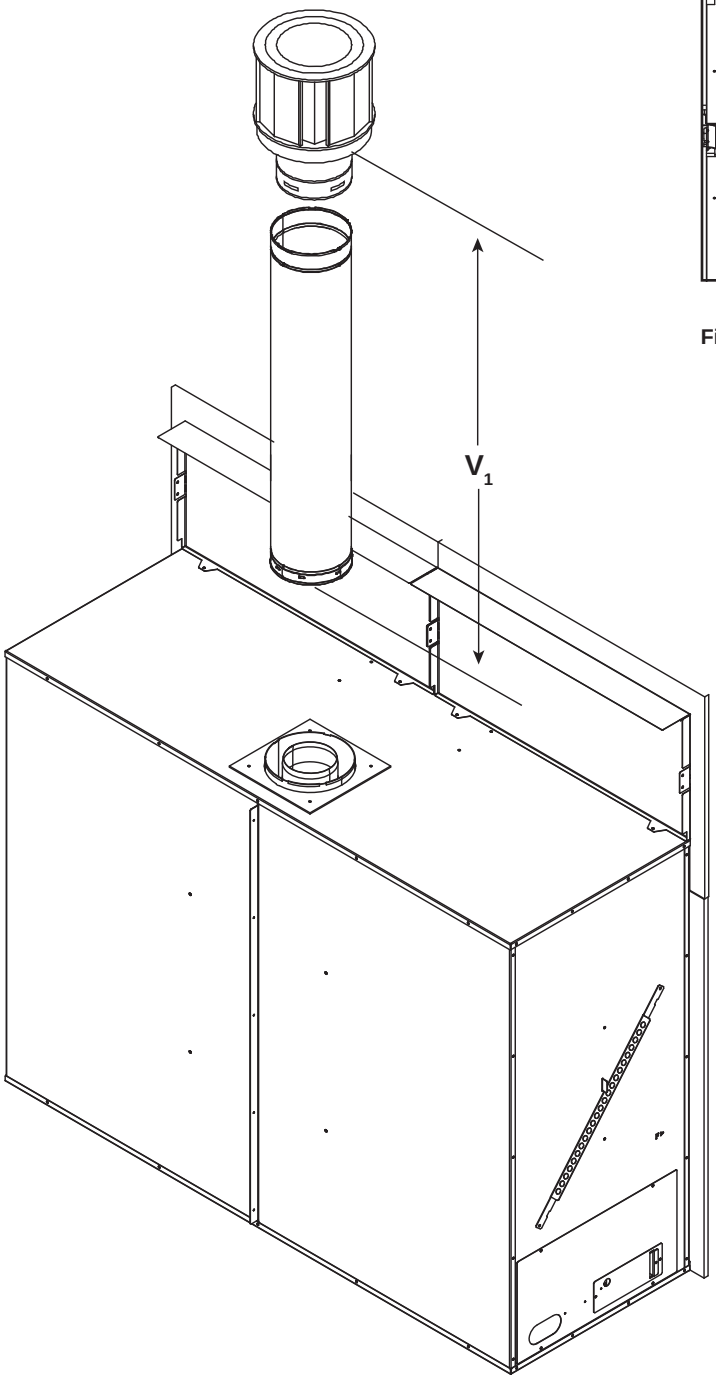


Figure 7.6

2. Top Vent - Vertical Termination - *(continued)*

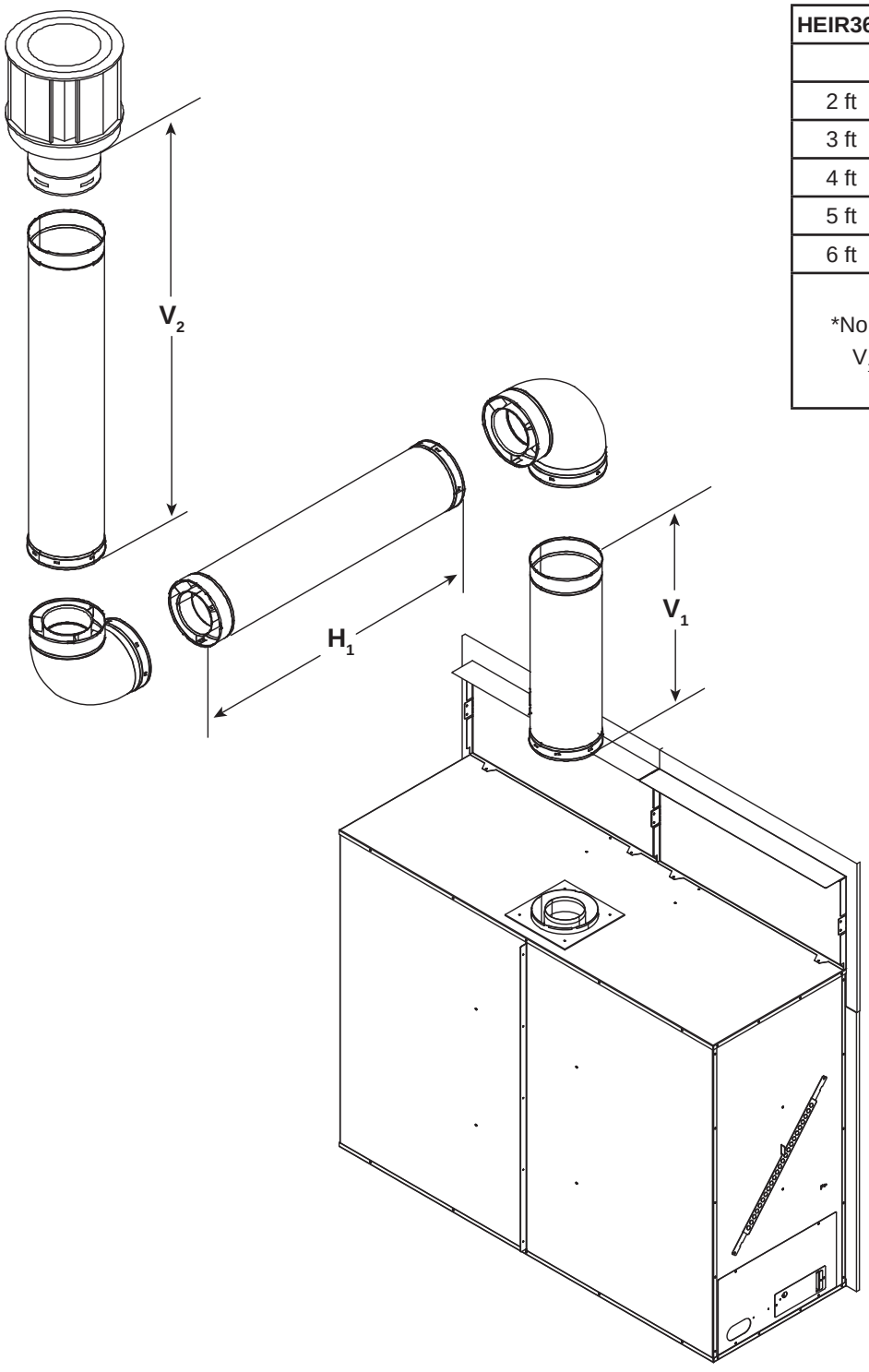
2 ELBOWS

Note: Flue restrictor is permitted ONLY on 30 ft. minimum vertical runs with no elbows.

WARNING! Risk of Fire!

- *HEIR36(NG/LP), HEIR42(NG/LP) and HEIR50(NG/LP) models require a minimum of 24 inches of vertical venting before attaching any elbow to the appliance.*

DO NOT attach elbow directly to the appliance.



HEIR36 (NG/LP), HEIR42 (NG/LP), HEIR50 (NG/LP)				
V_1		H_1		V_2
2 ft	610 mm	1 ft	305 mm	*
3 ft	914 mm	3 ft	914 mm	*
4 ft	1.2 m	4 ft	1.2 m	*
5 ft	1.5 m	9 ft	2.7 m	*
6 ft	1.8 m	12 ft	3.7 m	*
$V_1 + V_2 + H_1$ = 50 ft (15.2 m) Max. *No specific restrictions on this value EXCEPT $V_1 + V_2 + H_1$ cannot exceed 60 ft (18.3 m). After V_1 = 6 ft, then H_1 Max.= V_1 x 2				

Figure 7.8

2. Top Vent - Vertical Termination - *(continued)*

Three Elbows

Note: Flue restrictor is permitted ONLY on 30 ft. minimum vertical runs with no elbows.

WARNING! Risk of Fire!

- *HEIR36(NG/LP), HEIR42(NG/LP) and HEIR50(NG/LP) models require a minimum of 24 inches of vertical venting before attaching any elbow to the appliance.*

DO NOT attach elbow directly to the appliance.

HEIR36 (NG/LP), HEIR42 (NG/LP), HEIR50 (NG/LP)						
V_1		H_1	H_2	V_2	H_t Max.	
2 ft	610 mm	*	*	**	7 in	178 mm
3 ft	914 mm	*	*	**	2 ft	610 mm
4 ft	1.2 m	*	*	**	4 ft	1.2 m
5 ft	1.5 m	*	*	**	8 ft	2.4 m
6 ft	1.8 m	*	*	**	12 ft	3.7 m
7 ft	2.1 m	*	*	**	14 ft	4.3 m
10 ft	3.0 m	*	*	**	20 ft	6.1 m
*H_1 and H_2 has no specific restrictions EXCEPT, after V_1 = 6 ft, then H_t Max = 2 x V_1 **$V_T + H_T$ = 60 ft Max.						

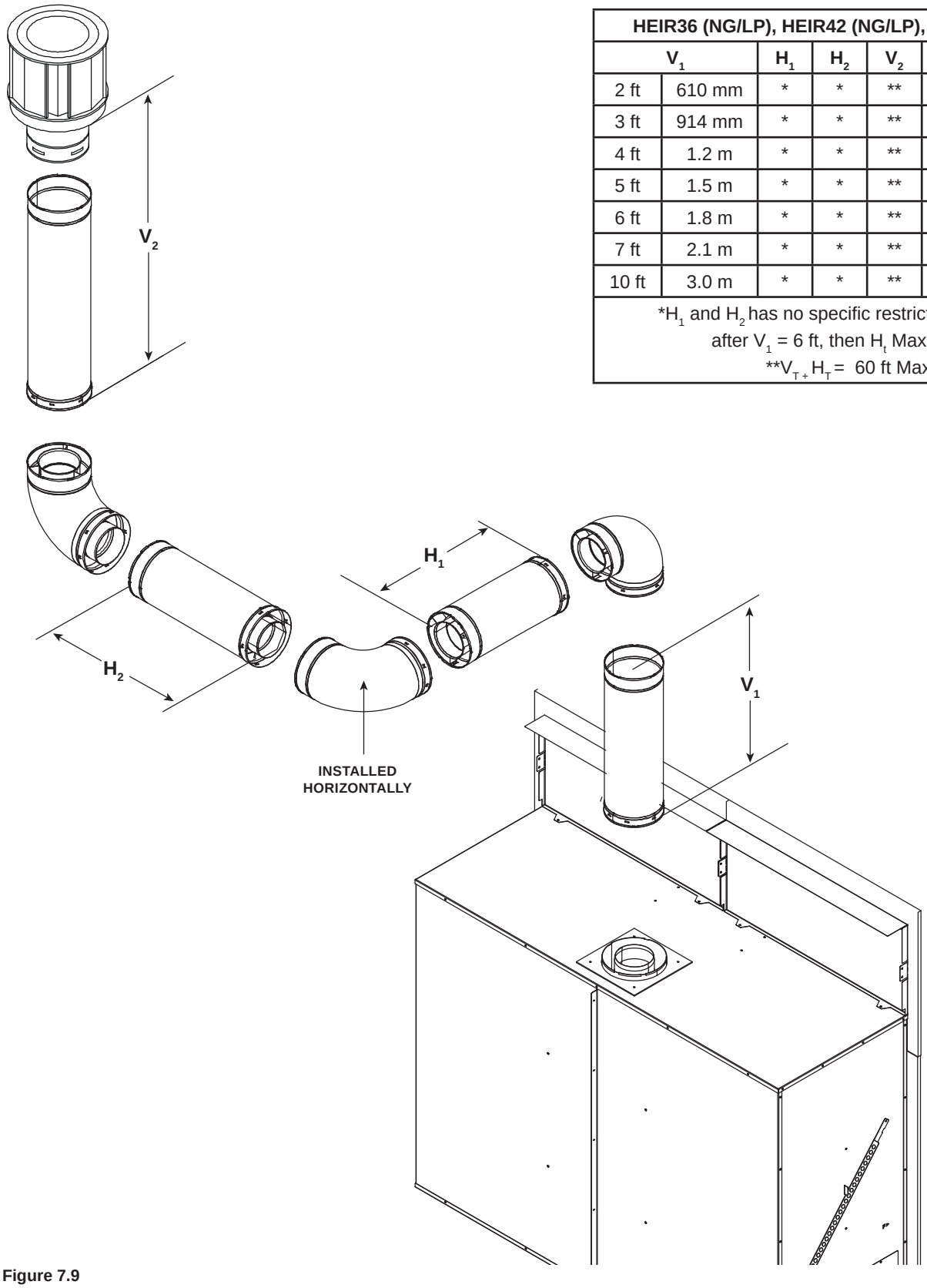


Figure 7.9

F. PVK-80 and PVI-SLP Information

This section provides specific detail for installation of HEIR36, HEIR42, and HEIR50 models with approved power vent kits. Follow instructions included with the PVK-80 or PVI-SLP power vent kits.

See Table 7.1 below for approved Power Venting options for HEIR models.

	PVK-80	PVI-SLP
HEIR36	APPROVED	APPROVED
HEIR42	APPROVED	APPROVED
HEIR50	APPROVED	APPROVED

Table 7.1

WARNING! Risk of Fire! *Use ONLY Hearth & Home Technologies-approved power venting systems with this appliance. Use of power venting systems not approved by Hearth & Home Technologies may cause fireplace to overheat.*

The power vent draft flow must be adjusted and set per the specifications in Table 7.2. Refer to the instructions provided with the PVK-80 and PVI-SLP for more specific information.

PVK-80: The exhaust control lever reduces the draft as it is opened. Open the exhaust control lever to FULL OPEN. See Figure 7.10. Secure the exhaust control lever to the power vent housing with the sheet metal screw.

PVI-SLP: The baffle adjustment is measured using the holes on the indicator bar of the PVI-SLP baffle. This bar raises as the baffle is opened and lowers as the baffle is closed. Adjust the baffle by turning the screw located in the motor enclosure. See Figure 7.11 and 7.12.

WARNING! Risk of Explosion! *Follow instructions to set draft flow. Incorrect setting may impair burner performance and/or cause delayed ignition.*

	PVK-80 Exhaust Control Lever	PVI-SLP Baffle Adjustment Setting
HEIR36	**FULL OPEN**	**3 Holes Visible**
HEIR42	**FULL OPEN**	**3 Holes Visible**
HEIR50	**FULL OPEN**	**3 Holes Visible**

Table 7.2

Figure 7.10 PVK-80 Control Lever Adjustment - Open

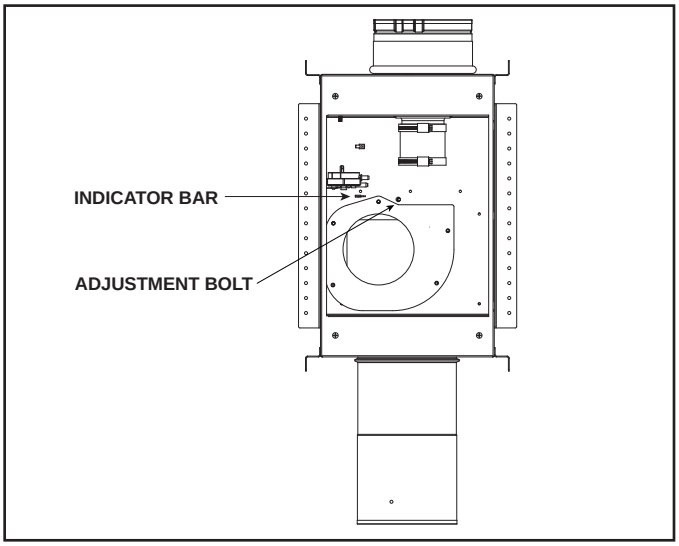


Figure 7.11 Baffle Adjustment Location - PVI-SLP

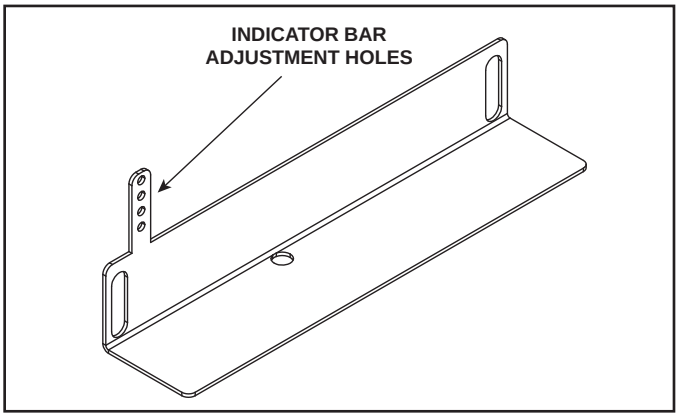


Figure 7.12 Baffle Adjustment - PVI-SLP

8 Vent Clearances and Framing

A. Pipe Clearances to Combustibles

WARNING! Risk of Fire! *Maintain air space clearance to vent.* ***DO NOT*** *pack insulation or other combustibles:*

- *Between ceiling firestops*
- *Between wall shield firestops*
- *Around vent system*

Failure to keep insulation or other material away from vent pipe may cause overheating and fire.

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm).
- **DVP heat shield** - designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick**.**
- If wall thickness is less than 4 in. the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. a DVP-HSM-B will be required.
- If wall thickness is less than 4-3/8 the existing heat shields must be field trimmed. If wall thickness is greater than 7-5/8 in. a DVP-HSM-B will be required.

(DVP Pipe Shown)

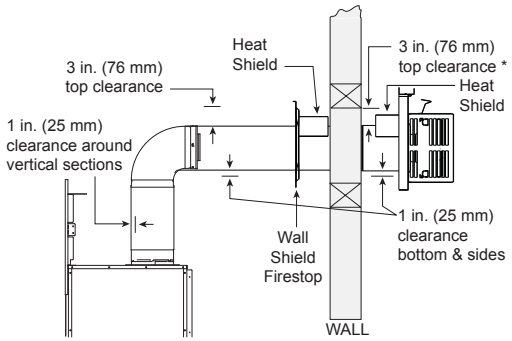

Heat Shield
3 in. (76 mm) top clearance
3 in. (76 mm) top clearance *
Heat Shield
1 in. (25 mm) clearance around vertical sections
1 in. (25 mm) clearance bottom & sides
Wall Shield Firestop
WALL

Figure 8.1 Horizontal Venting Clearances To Combustible Materials

B. Wall Penetration Framing

Combustible Wall Penetration

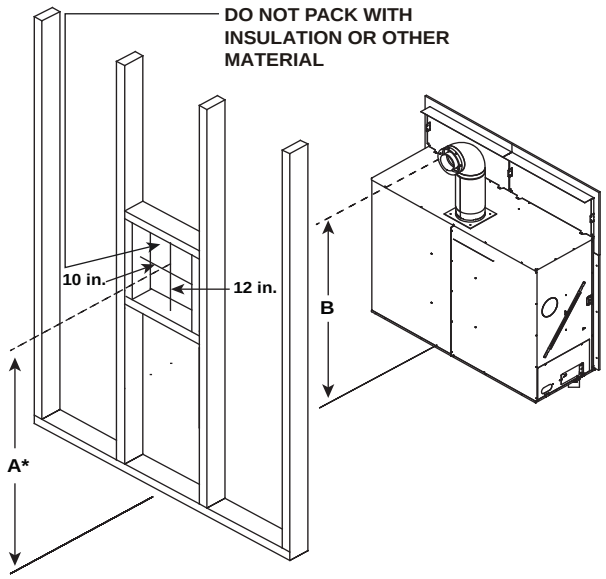
Whenever a combustible wall is penetrated, you must frame a hole for the wall shield firestop(s). The wall shield firestop maintains minimum clearances and prevents cold air infiltration.

- The opening must be framed on all four sides using the same size framing materials as those used in the wall construction.
- DVP pipe - A wall shield firestop is required on one side only on interior walls. If your local inspector requires a wall shield firestop on both sides, then both wall shield firestops must have a heat shield (refer to Section 16.B.) attached to them.
- See Section 10.H. for information for regarding the installation of a horizontal termination cap.

Non-Combustible Wall Penetration

If the hole being penetrated is surrounded by non-combustible materials such as concrete, a hole with diameter one inch greater than the pipe is acceptable.

Whenever a non-combustible wall is penetrated, the wall shield firestop is only required on one side and no heat shield is necessary.



MODEL	A*	B
HEIR36	74-3/16 in.	73-3/16 in.
HEIR42	79-3/16 in.	78-3/16 in.
HEIR50	83-3/16 in.	82-3/16 in.

* Shows center of vent framing hole with minimum vertical for top venting. The center of the hole is one (1) in. (25.4 mm) above the center of the horizontal vent pipe.

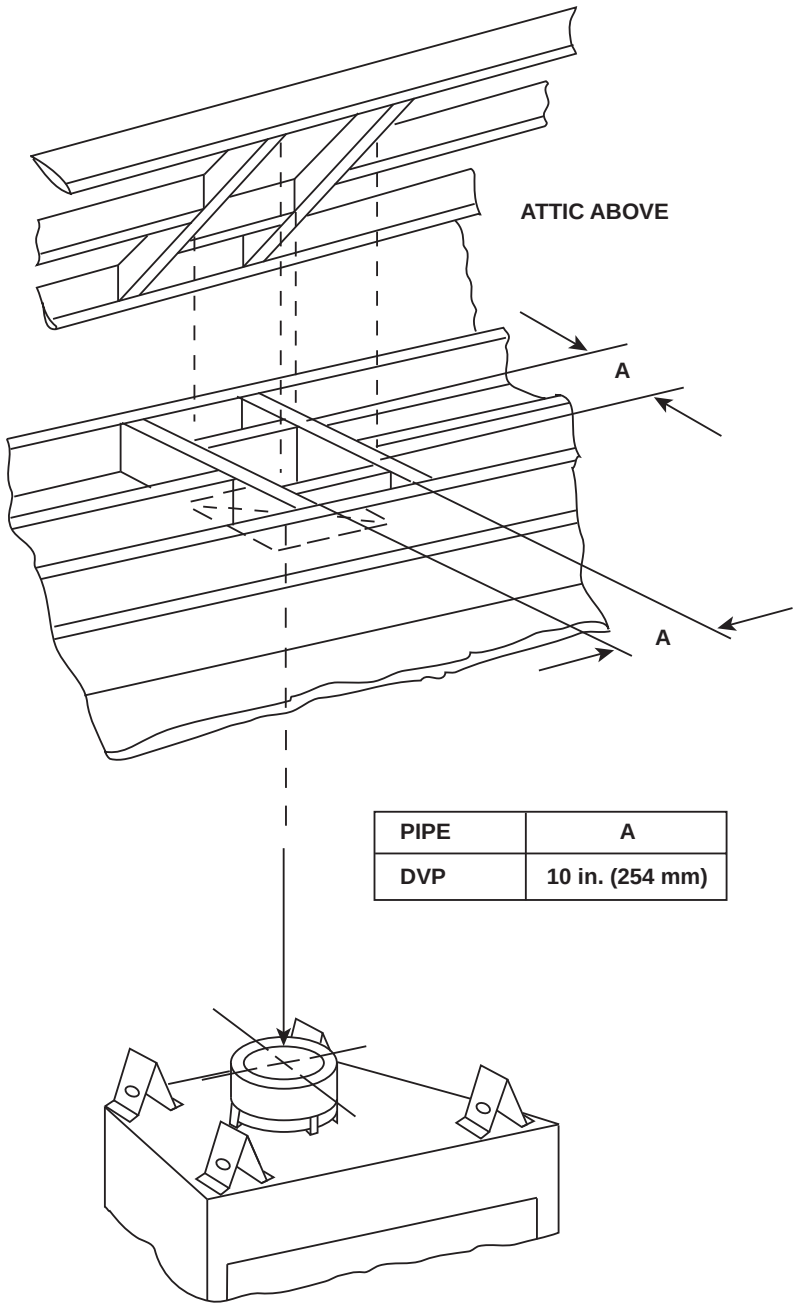
Figure 8.2 Wall Penetration

C. Install the Ceiling Firestop

A ceiling firestop **MUST** be used between floors and attics.

- **DVP pipe only** - Frame an opening 10 in. by 10 in. (254 mm by 254 mm) whenever the vent penetrates a ceiling/floor (see Figure 8.3).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- The ceiling firestop may be installed above or below the ceiling joists when installed with a attic insulation shield. It must be under joists between floors that are not insulated. Refer to Figure 8.4.
- Secure with three fasteners on each side.

WARNING! Risk of Fire! DO NOT pack insulation around the vent. Insulation must be kept back from the pipe to prevent overheating.



PIPE	A
DVP	10 in. (254 mm)

Figure 8.3 Installing Ceiling Firestop

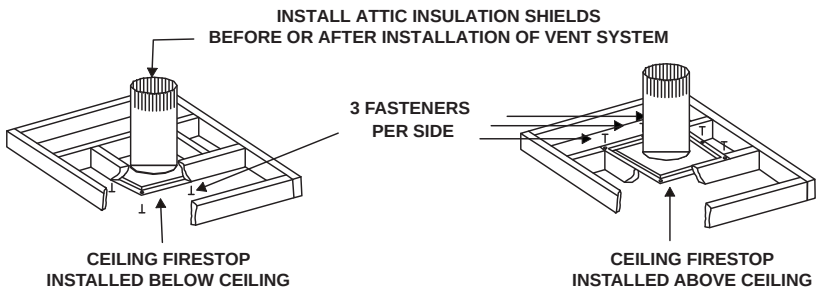


Figure 8.4 Installing the Attic Shield

D. Install Attic Insulation Shield

WARNING! Fire Risk. DO NOT *allow loose materials or insulation to touch vent. Hearth & Home Technologies Inc. requires the use of an attic shield.*

The National Fuel Gas Code ANSI Z223.1 and NFPA 54 requires an attic shield constructed of 26 gauge minimum metal that extends at least 2 in. (51 mm) above insulation.

Attic shields must meet specified clearance and be secured in place.

Flat Ceiling Installation

- Remove one shield from box.

NOTICE: *Cut previously installed batt insulation to make room for the attic insulation shield.*

- Wrap shield around pipe if pipe is already installed in area to be insulated.
- Match the three holes in each side and fasten with three screws to form a tube.
- Bend three tabs on the bottom of the shield outward to allow attachment to the ceiling firestop.
- Bend the remaining bottom tabs inward 90º to maintain the air space between the pipe and the shield. Set the shield on the ceiling firestop and attach to the firestop.
- Bend all tabs inward 90º around the top of the shield. These tabs must be used to prevent blown insulation from getting between the shield and vent pipe, and to maintain air space clearance.

Vaulted Ceiling Installation

- Remove one shield from box.

NOTICE: *Cut previously installed batt insulation to make room for the attic insulation shield.*

- Cut the attic insulation shield (if application is for vaulted ceiling) to fit your ceiling pitch. Snip cut edge to recreate 1 in. bend tabs all the way around the bottom.
- Wrap shield around pipe if pipe is already installed in area to be insulated.
- Match the three holes in each side and fasten with three screws to form a tube.
- Bend three tabs on the bottom of the shield outward to allow attachment to the ceiling firestop.
- Bend the remaining bottom tabs inward 90º to maintain the air space between the pipe and the shield. Set the shield on the ceiling firestop and attach to the firestop.
- Bend all tabs inward 90º around the top of the shield. These tabs must be used to prevent blown insulation from getting between the shield and vent pipe, and to maintain air space clearance.

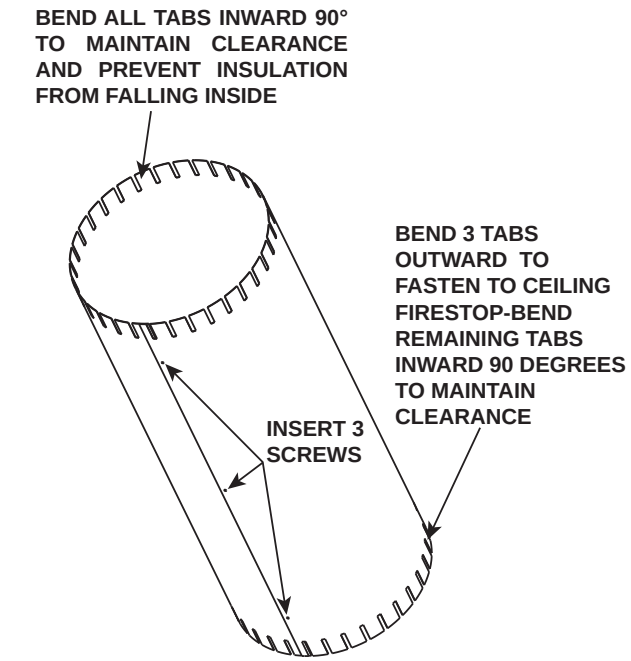

BEND ALL TABS INWARD 90° TO MAINTAIN CLEARANCE AND PREVENT INSULATION FROM FALLING INSIDE
BEND 3 TABS OUTWARD TO FASTEN TO CEILING FIRESTOP-BEND REMAINING TABS INWARD 90 DEGREES TO MAINTAIN CLEARANCE
INSERT 3 SCREWS

Figure 8.5 Attic Insulation Shield

E. Installing the Optional Heat-Zone® Gas Kit

- Locate the Heat-Zone® ports on the left and right sides of the appliance. See Figure 8.6. Remove the knockouts from the appliance with a tin snips.
- Center the duct collar around the exposed hole and attach it to the appliance with 3 screws. Note: Do this BEFORE final positioning of the appliance.
- Determine the location for the air register/fan housing assembly.

Reference the Heat-Zone® Gas Kit instructions for the remaining installation steps.

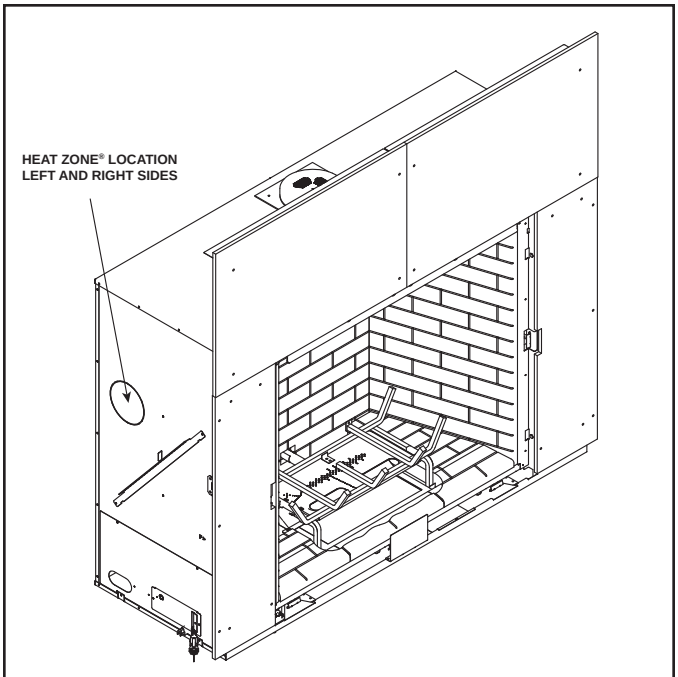


Figure 8.6 Heat Zone Cover Plate

9 Appliance Preparation

A. Vent Preparation

CAUTION! Risk of Cuts, Abrasions or Flying Debris. *Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.*

NOTICE: *This appliance is top vented ONLY.*

1. Remove shrink wrap from appliance. Figure 9.1 shows the shipping location of the seal cap and heat shields (Section 9), splatter guard and finishing templates (Section 13), and the lava rock and logs (Section 14).
2. Remove seal cap from top of appliance by removing one screw, which is included, to prevent construction material from getting into appliance. Remove seal cap when pipe installation phase begins. See Figure 9.2.
3. Ensure gasket seal is in place prior to installing vent pipe sections. Gasket is installed at the factory.

Figure 9.2 Seal Cap and Gasket Location

Figure 9.1 Shipping Location of Components

B. Securing and Leveling the Appliance

WARNING! Risk of Fire! *Prevent contact with:*

- *Sagging or loose insulation*
- *Insulation backing or plastic*
- *Framing and other combustible materials*

Block openings into the chase to prevent entry of blown-in insulation. Make sure insulation and other materials are secured.

DO NOT *notch the framing around the appliance standoffs.*

Failure to maintain air space clearance may cause overheating and fire.

Nailing tabs are provided on the appliance and on the heat shields to secure the appliance to the framing members. See Figure 9.3 and Figure 9.5 for location of nailing tabs in shipping position.

- Bend out side nailing tabs 90 degrees. See Figure 9.4.
- Place the appliance into position.
- Keep side nailing tabs flush with the framing.
- Level the appliance from side to side and front to back.
- Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.
- Position and install heat shields by securing two screws in each heat shield. See Figure 9.1 for shipping location of heat shields. The heat shield screws can be found pre-installed on the top of the appliance.
- Bend the top header heat shields upward to position them vertically and bend out the two nailing tabs on the top of each header heat shield. Secure to framing. See Figure 9.5.
- Secure the appliance to the framing by using nails or screws through the nailing tabs.
- Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

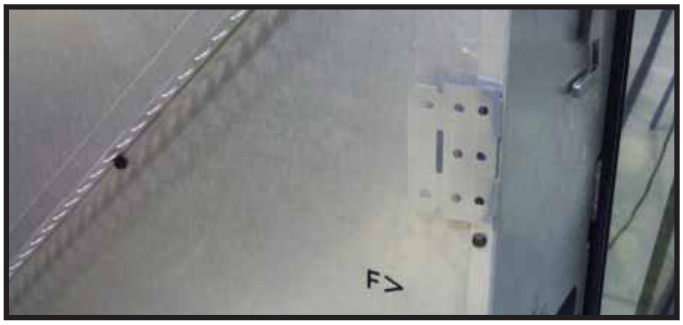


Figure 9.3 Side Nailing Tab in Shipping Position

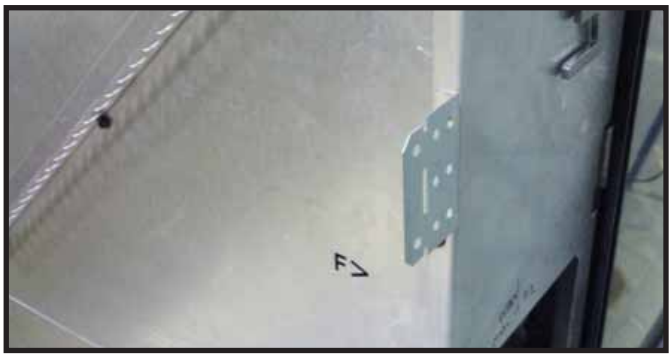


Figure 9.4 Nailing Tab Bent Out for Installation

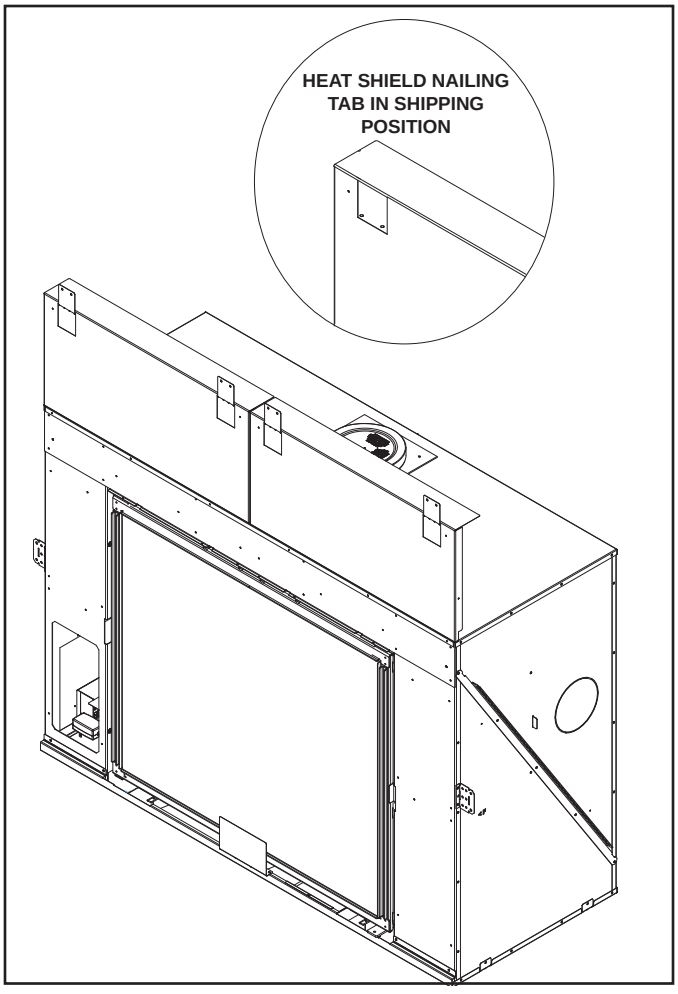


Figure 9.5. Heat Shields and Nailing Tabs in Installation Position

C. Installing Non-combustible Facing Material

WARNING! Risk of Fire!

- *Follow these instructions exactly.*
- *Facing materials must be installed properly to prevent fire.*
- *No materials may be substituted without authorization by Hearth & Home Technologies.*
- The finishing templates are shipped fastened to the top surround. Remove finishing templates prior to installing non-combustible board.
- Remove non-combustible facing pieces from back of appliance. See Figure 9.6.
- Install non-combustible facing material to the appliance using the screws supplied in the manual bag assembly.
- Center and attach two top panels to the framing members. See Figure 9.7.
- Attach left and right side panels to framing members.
- Use fasteners from fastener packet (in manual bag) for screws that secure to the fireplace. See Figure 9.7.
- Use drywall screws or nails to secure the perimeter of the non-combustible facing materials to the wood framing. See Figure 9.7.
- Use a wet or dry towel or soft brush to remove dust or dirt from facing material.
- See Section 13 for finishing materials guidelines.

Figure 9.6 Shipping Location of Non-Combustible Board

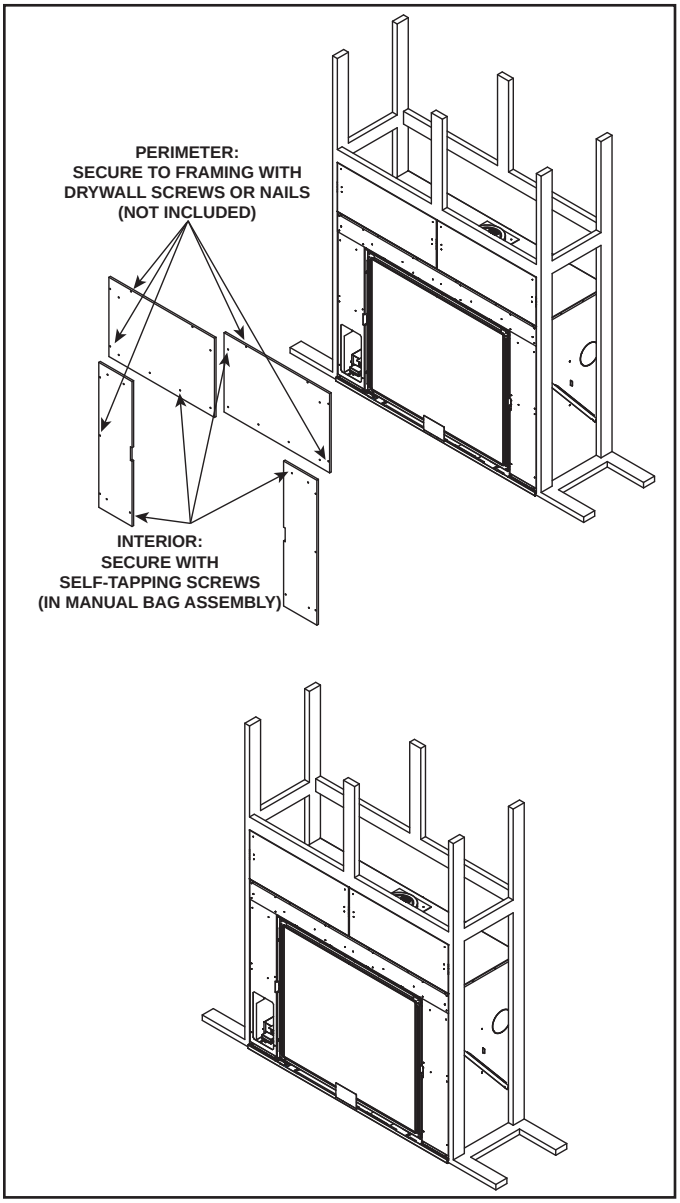


Figure 9.7 Installing Non-Combustible Facing Material

10 Installing Vent Pipe (DVP Pipe)

A. Assemble Vent Sections

Attach Vent to the Firebox Assembly

Note: The end of the pipe sections with the lanced tabs will face toward the appliance.

Attach the first pipe section to the starting collar:

- Lanced pipe end of the starting collar.
- Inner pipe over inner collar.
- Push the pipe section until all lanced tabs snap in place.
- Lightly tug on pipe to confirm it has locked.

Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications

All outer pipe joints must be sealed with high temperature silicone (300ºF minimum continuous exposure rating), including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300ºF minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections. See Figure 10.1.
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

***WARNING! Risk of Fire or Explosion! DO NOT** break silicone seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent may leak.*

Assemble Pipe Sections

Per Figure 10.2:

- Start the inner pipe on the lanced end of section A into the flared end of section B.
- Start the outer pipe of section A over the outer pipe of section B.
- Once both vents sections are started, push firmly until all lanced tabs lock into place.
- Lightly tug on the pipe to confirm the tabs have locked.

It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

For 90º and 45º elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1/2 in. (13 mm). If predrilling screw holes, **DO NOT** penetrate inner pipe.

Figure 10.1 High Temperature Silicone Sealant

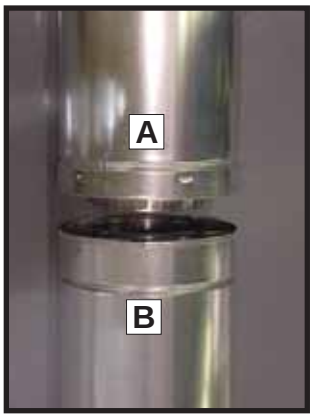
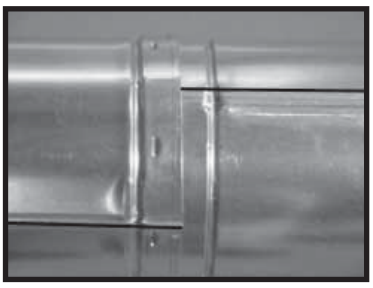


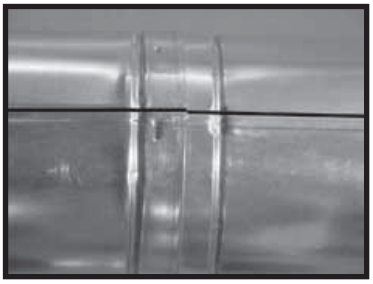
Figure 10.2

Figure 10.3

Note: Make sure that the seams are not aligned to prevent unintentional disconnection.



CORRECT



INCORRECT

Figure 10.4 Seams

B. Secure the Vent Sections

- Vertical runs of DVP pipe must be supported every 8 ft. (2.44 m) after the 25 ft. (7.62 m) maximum unsupported rise.
- Horizontal sections must be supported every 5 feet (1.52 m).
- Vent supports or plumbers strap (spaced 120º apart) may be used to support vent sections. See Figures 10.5 and 10.6.
- Wall shield firestops may be used to provide horizontal support to vent sections.

WARNING! Risk of Fire, Explosion or Asphyxiation! *Improper support may allow vent to sag and separate. Use vent run supports and connect vent sections per installation instructions.* ***DO NOT*** *allow vent to sag below connection point to appliance.*

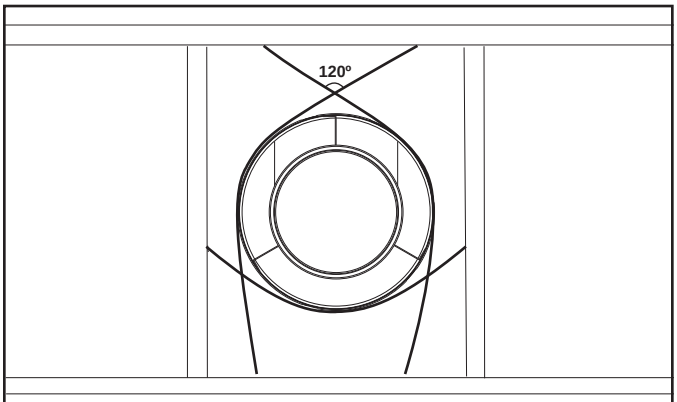


Figure 10.5 Securing Vertical Pipe Sections

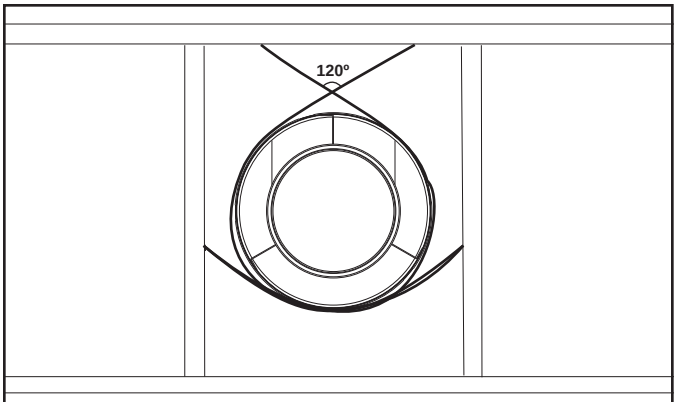


Figure 10.6 Securing Horizontal Pipe Sections

C. Disassemble Vent Sections

- Rotate either section (see Figure 10.7) so the seams on both pipe sections are aligned as shown in Figure 10.8.
- Pull carefully to separate the pieces of pipe.

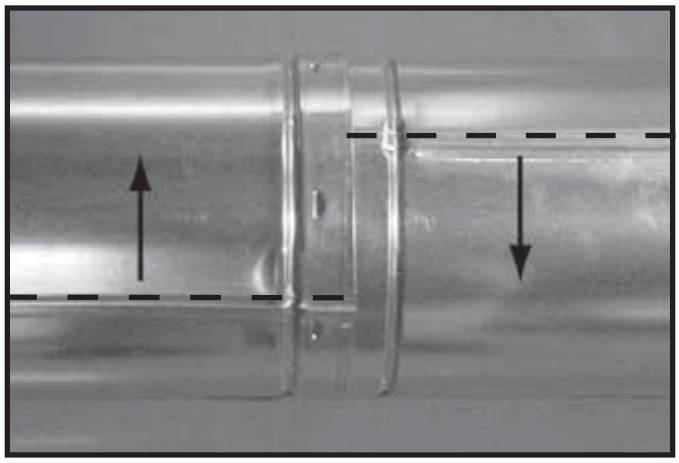


Figure 10.7 Rotate Seams for Disassembly

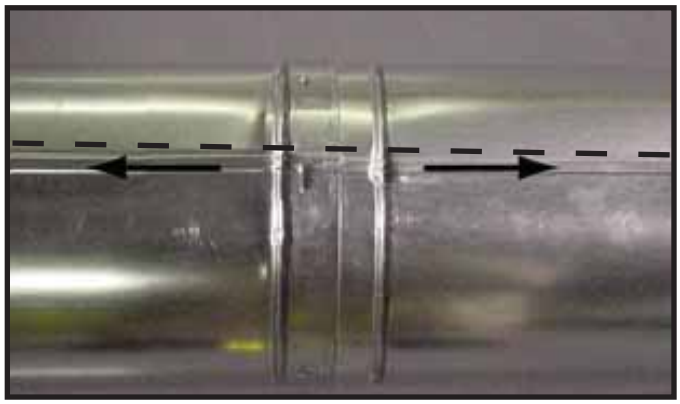
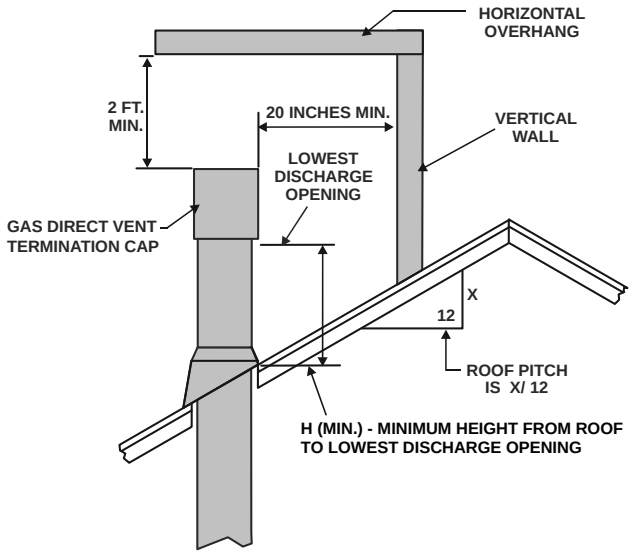


Figure 10.8 Align and Disassemble Vent Sections

D. Install Metal Roof Flashing

- See minimum vent heights for various pitched roofs (Figure 10.9) to determine the length of pipe to extend through the roof.
- Slide the roof flashing over the pipe sections extending through the roof as shown in Figure 10.10.



Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*
Over 6/12 to 7/12	1.25*
Over 7/12 to 8/12	1.5*
Over 8/12 to 9/12	2.0*
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8.0

* 3 foot minimum in snow regions

Figure 10.9 Minimum Height From Roof To Lowest Discharge Opening

NOTICE: *Failure to properly caulk the roof flashing and pipe seams may permit entry of water.*

- Caulk the gap between the roof flashing and the outside diameter of the pipe.
- Caulk the perimeter of the flashing where it contacts the roof surface. See Figure 10.10.
- Caulk the overlap seam of any exposed pipe sections that are located above the roof line.

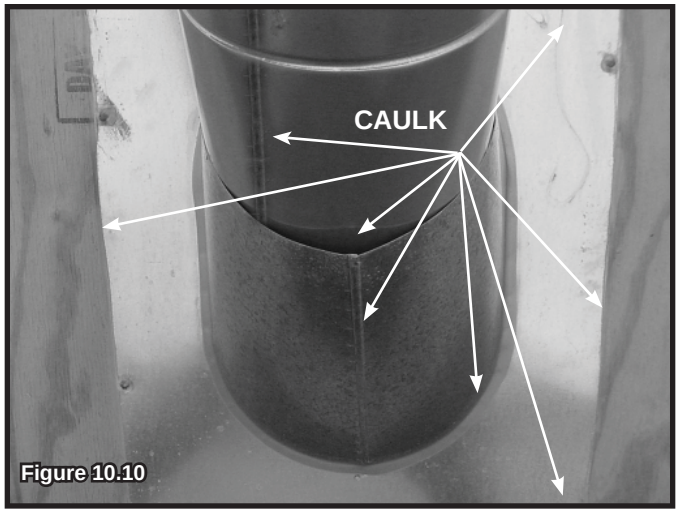


Figure 10.10

E. Assemble and Install Storm Collar

CAUTION! Risk of Cuts, Abrasions or Flying Debris. *Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.*

- Connect both halves of the storm collar with two screws (see Figure 10.11).
- Wrap the storm collar around the exposed pipe section closest to the roof and align brackets. Insert a bolt (provided) through the brackets and tighten the nut to complete the storm collar assembly. Make sure the collar is tight against the pipe section.
- Slide the assembled storm collar down the pipe section until it rests on the roof flashing (see Figure 10.12).
- Caulk around the top of the storm collar (see Figure 10.13).

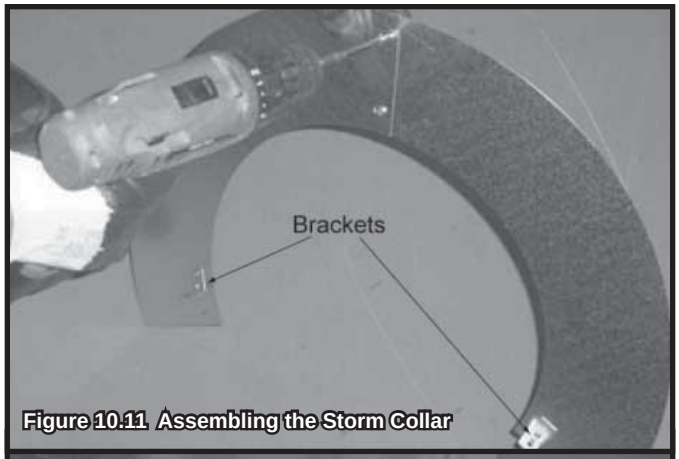


Figure 10.11 Assembling the Storm Collar

Figure 10.12 Assembling the Storm Collar Around the Pipe

F. Install Vertical Termination Cap

- Attach the vertical termination cap by sliding the inner collar of the cap into the inner flue of the pipe section while placing the outer collar of the cap over the outer flue of the pipe section.
- Secure the cap by driving three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe (see Figure 10.13).

Figure 10.13

G. Heat Shield Requirements for Horizontal Termination

WARNING! Risk of Fire! *To prevent overheating and fire, heat shields must extend through the entire wall thickness.*

- ***DO NOT*** *remove the heat shields attached to the wall shield firestop and the horizontal termination cap shown in Figure 10.14.*
- *Heat shields must overlap 1-1/2 in. (38 mm) minimum.*

There are two sections of the heat shield. One section is factory-attached to the wall shield firestop. The other section is factory-attached to the cap. See Figure 10.20.

If the wall thickness does not allow the required 1-1/2 in. (38 mm) heat shield overlap when installed, an extended heat shield must be used.

- If the wall thickness is less than 4 in./102 mm (DVP), the heat shields on the cap and wall shield firestop must be trimmed. A minimum 1-1/2 in. (38 mm) overlap MUST be maintained.
- Use an extended heat shield if the finished wall thickness is greater than 7-1/4 in. (184 mm).
- The extended heat shield may need to be cut to length maintaining sufficient length for a 1-1/2 in. (38 mm) overlap between heat shields.
- Attach the extended heat shield to either of the existing heat shields using the screws supplied with the extended heat shield. Refer to vent components diagrams in the back of this manual.
- Rest the small leg on the extended heat shield on top of the pipe section to properly space it from the pipe section.

Important Notice: Heat shields may <u>not</u> be field constructed.

H. Install Horizontal Termination Cap

WARNING! Risk of Fire! *The telescoping flue section of the termination cap MUST be used when connecting vent.*

- *1-1/2 (38 mm) minimum overlap of flue telescoping section is required.*

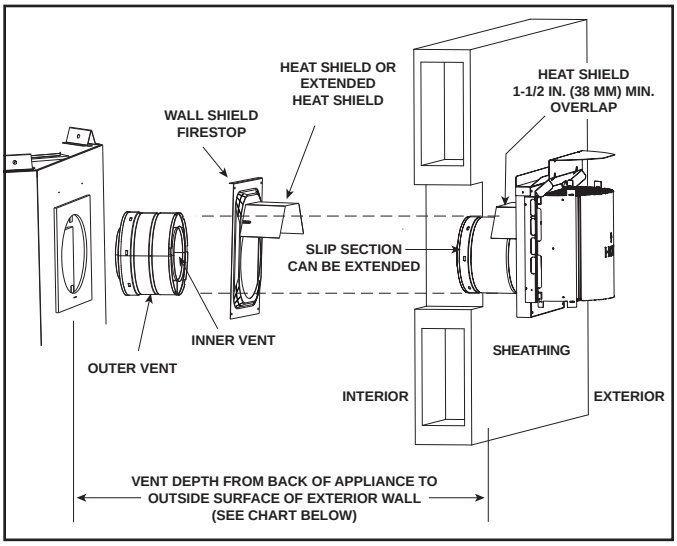
Failure to maintain overlap may cause overheating and fire.

- Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.
- Flash and seal as appropriate for siding material at outside edges of cap.
- When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes and refer to Section 6 of this manual.

CAUTION! Risk of Burns! *Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.*

NOTICE: *For certain exposures which require superior resistance to wind-driven rain penetration, a flashing kit is available. When penetrating a brick wall, a brick extension kit is available for framing the brick.*

Note: When using termination caps with factory-supplied heat shield attached, no additional wall shield firestop is required on the exterior side of a combustible wall.


HEAT SHIELD OR EXTENDED HEAT SHIELD
HEAT SHIELD 1-1/2 IN. (38 MM) MIN. OVERLAP
WALL SHIELD FIRESTOP
SLIP SECTION CAN BE EXTENDED
INNER VENT
OUTER VENT
SHEATHING
INTERIOR
EXTERIOR
VENT DEPTH FROM BACK OF APPLIANCE TO OUTSIDE SURFACE OF EXTERIOR WALL (SEE CHART BELOW)
Figure 10.14 Venting Through the Wall

11 Gas Information

A. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

B. Gas Pressure

- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z223.1 National Fuel Gas Code in the USA and CAN/CGA B149 in Canada.
- Pressure requirements are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	10.0 in. w.c.	13.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

WARNING! Risk of Fire or Explosion! *High pressure will damage valve. Low pressure may cause explosion.*

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

⚠ WARNING

Fire Risk.

Explosion Hazard.

High pressure will damage valve.

- Disconnect gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.
- Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig.

Note: Have the gas supply line installed in accordance with local codes, if any. If not, follow ANSI 223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

Note: A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

C. Gas Connection

- Refer to Reference Section 16 for location of gas line access in appliance.
- Gas line may be run through knockout(s) provided.
- The gap between supply piping and gas access hole may be caulked with caulk with a minimum of 300ºF continuous exposure rating or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into valve compartment.
- Connect incoming gas line to the 1/2 in. (13 mm) connection on manual shutoff valve.

WARNING! Risk of Fire or Explosion! *Support control when attaching pipe to prevent bending gas line.*

- A small amount of air will be in the gas supply lines.

WARNING! Risk of Fire or Explosion! *Gas build-up during line purge could ignite.*

- *Purge should be performed by qualified service technician.*
- *Ensure adequate ventilation.*
- *Ensure there are no ignition sources such as sparks or open flames.*

Light the appliance. It will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

WARNING! Risk of Fire, Explosion or Asphyxiation! *Check all fittings and connections with a non-corrosive commercially available leak-check solution.* ***DO NOT*** *use open flame. Fittings and connections could have loosened during shipping and handling.*

WARNING! Risk of Fire! DO NOT *change valve settings. This valve has been preset at the factory.*

D. High Altitude Installations

NOTICE: *If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.*

When installing above 2000 feet elevation:

- In the USA: Reduce burner orifice 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce burner orifice 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

12 Electrical Information

A. Wiring Requirements

NOTICE: *This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with* **National Electric Code ANSI/ NFPA 70-latest edition** *or the* **Canadian Electric Code CSA C22.1.**

- Wire the appliance junction box to 110-120 VAC. This is required for use of optional accessories (standing pilot ignition) or proper operation of the appliance (IntelliFire Plus™ ignition).
- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.
- Low voltage and 110 VAC voltage cannot be shared within the same wall box.

WARNING! Risk of Shock or Explosion! DO NOT *wire 110V to the valve or to the appliance wall switch. Incorrect wiring will damage controls.*

B. IntelliFire Plus™ Ignition System Wiring

- Wire the appliance junction box to 110-120 VAC for proper operation of the appliance.

WARNING! Risk of Shock or Explosion! DO NOT *wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.*

- Refer to Figure 12.1, IPI Wiring Diagram.
- This appliance is equipped with an IntelliFire Plus™ control valve which operates on a 6 volt/1.5 AMP system.
- Plug the 6 volt transformer plug into the appliance junction box to supply power to the unit OR install 4 AA batteries (not included) into the battery pack before use.

C. Optional Accessories Requirements

- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.

Wiring for optional Hearth & Home Technologies approved accessories should be done now to avoid reconstruction. Follow instructions that come with those accessories.

- Hearth & Home Technologies recommends that IntelliFire Plus™ wireless controls be used for their features and functionality with the IntelliFire Plus™ ignition system.

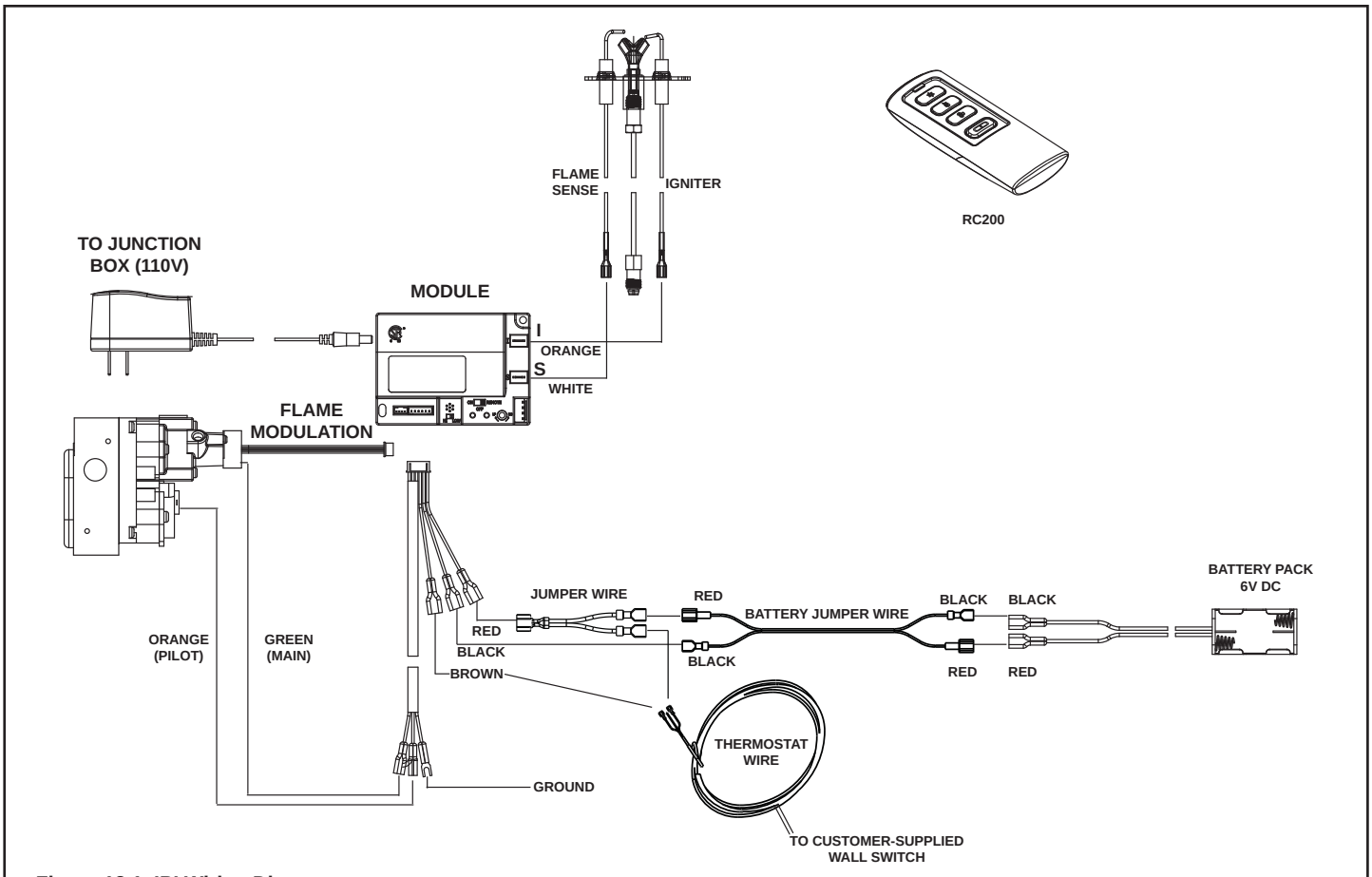


Figure 12.1 IPI Wiring Diagram

D. Electrical Service and Repair

WARNING! Risk of Shock! *Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.*

WARNING! Risk of Shock! *Replace damaged wire with type 105º C rated wire. Wire must have high temperature insulation.*

E. Junction Box Installation

If the box is being wired from the **INSIDE** of the appliance:

- The junction box is accessible through the front left column if finishing materials have not been installed. The junction box is also accessible through the firebox access panel. See Figure 12.2.
- Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell. See Figure 12.3.
- Pull the electrical wires from outside the appliance through the opening into the valve compartment and secure wires with a Romex connector. See Figure 12.3
- Make all necessary wire connections to the junction box/receptacle and reattach the junction box/receptacle to the outer shell.

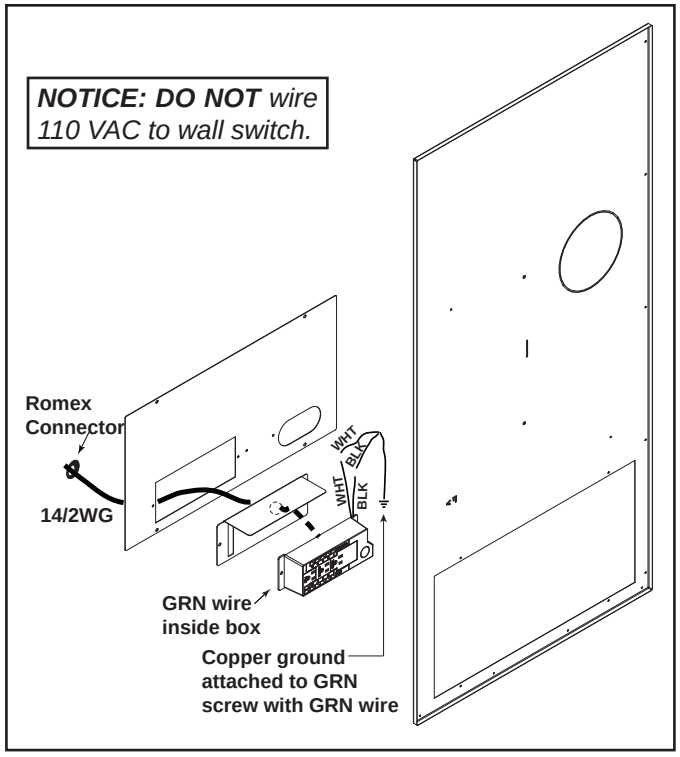


Figure 12.3 Junction Box Detail

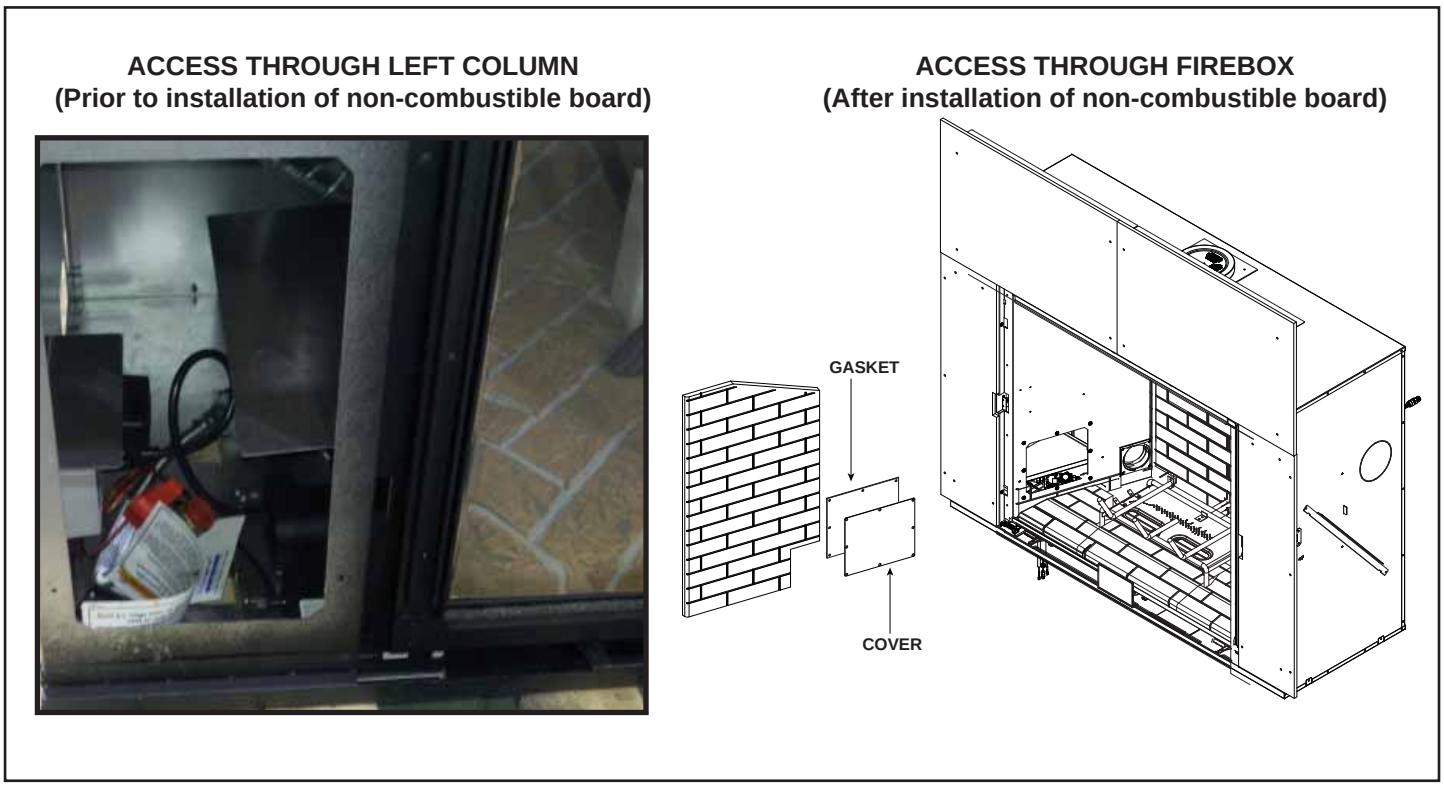


Figure 12.2 Junction Box Access

13 Finishing

A. Finishing Templates

Two side finishing templates and one top finishing template are supplied with the appliance. They are fastened to the top surround.

INSIDE FIT Method: The finishing template pieces are required for installations that require more than one inch thick finishing materials to be installed over the face of the factory-supplied 1/2 inch non-combustible board. Refer to section 13.E for more information.

OVERLAP Method: The supplied templates are not required for finishing materials less than one inch thick. The required decorative front will overlap finish materials less than one inch thick. Refer to section 13.E for more information.

Note: For Arch Door applications with finish material greater than one inch thick, an Arch Template Kit is available. Contact your dealer to order the arch template kit.

Template installation instruction

1. Determine if the required door options is a inoperable (fixed style) or operable (cabinet style). Doors denoted with an FS are inoperable. Doors denoted with an CS are operable. Refer to Section 13.E for door information.
2. Bend the left and right side templates for the appropriate door type using Figure 13.2 as a reference.
3. Locate the four threaded inserts on the inside edge of the fireplace and secure the side templates with the Phillips screws provided. See Figure 13.3.
4. Bend the top template as shown in Figure 13.1 and secure with the two screws provided. The bend will have two opposing 90 degree bends, similar to the bends on the side templates.
5. Remove all template components once finishing materials are secured.

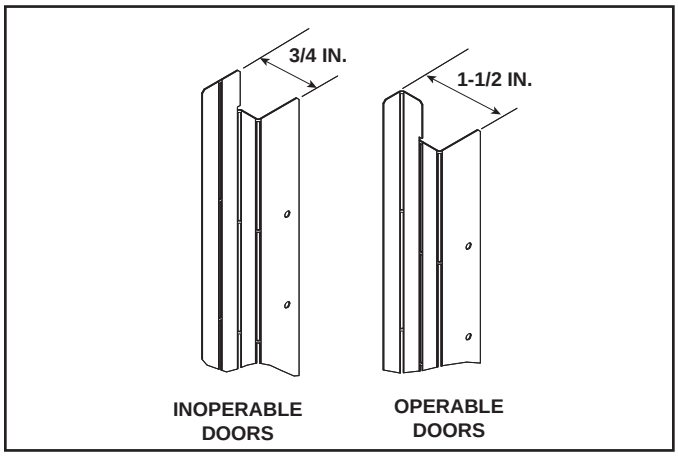


Figure 13.2 Left and Right Side Finishing Template Bends

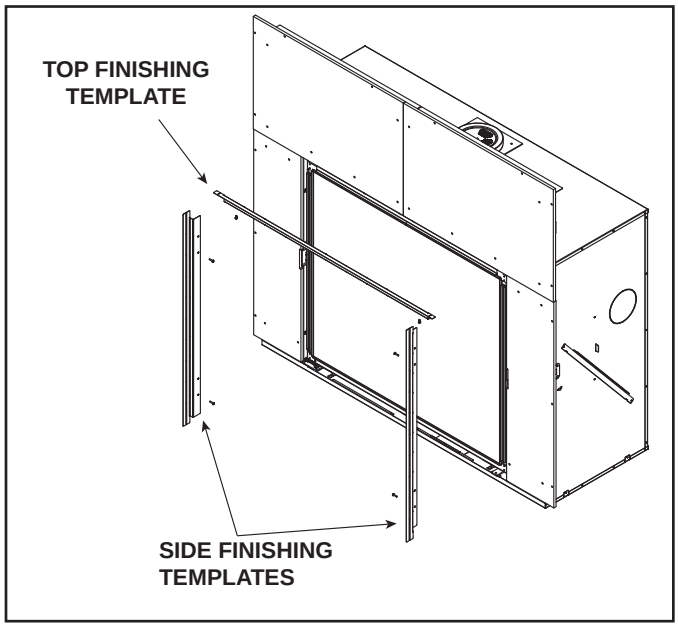


Figure 13.3 Top and Side Finishing Template Locations

Note: A thin layer of mortar may be applied over the visible non-combustible board between finishing material and the fireplace opening.

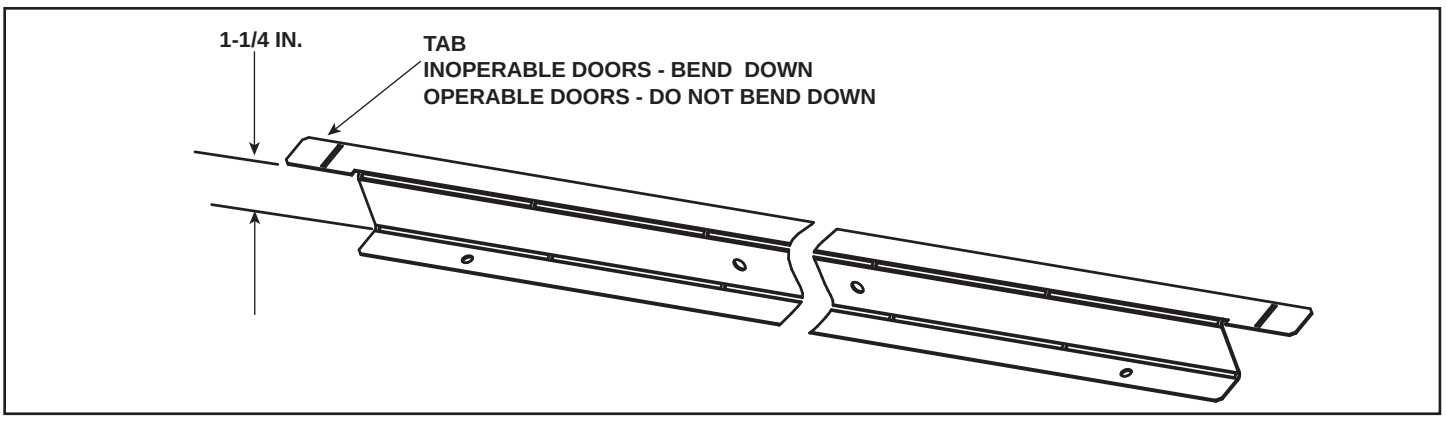


Figure 13.1 Top Finishing Template Bend

Figure 13.4 Finishing Template Bends - Inoperable (Fixed) Doors

Figure 13.5 Finishing Template Bend - Operable Doors

B. Splatter Guard

The splatter guard is a piece of corrugated material used to protect the appliance during the installation process before finishing work on the whole hearth is complete. Splatter guards may be factory installed or accompany the door of the appliance, depending on the fireplace model. Splatter guards must be removed before appliance is fired.

WARNING! Risk of Fire! *Close the ball valve before installing the splatter guard to prevent accidental lighting. Remove the splatter guard before lighting the appliance.*

1. Fold top flap along scored lines.
2. Slide side tabs into slots by sides of glass.

Figure 13.6. Splatter Guard Installation

C. Mantel and Wall Projections

WARNING! Risk of Fire! *Comply with all minimum clearances as specified. Framing closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).*

When installing a mantel, provisions must be made in order to secure the mantel to the adjacent framing materials. For example, lintel brackets or lag bolts may be considered for this purpose.

Combustible Mantel Legs or Wall Projections

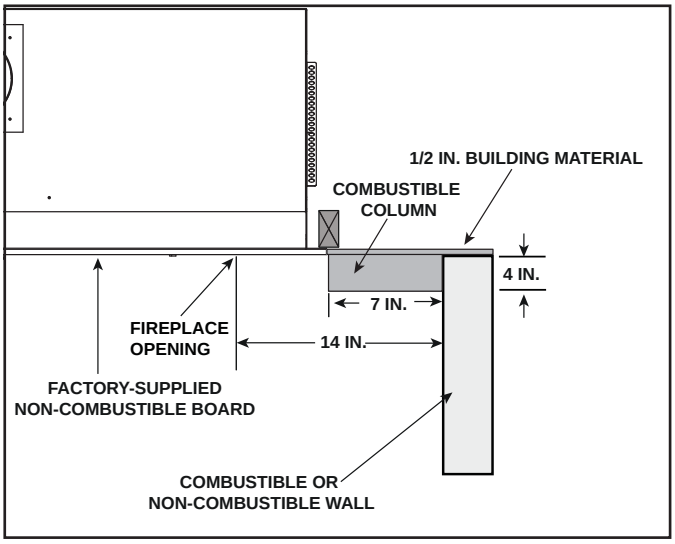


Figure 13.7

Non-Combustible Mantel Legs or Wall Projections

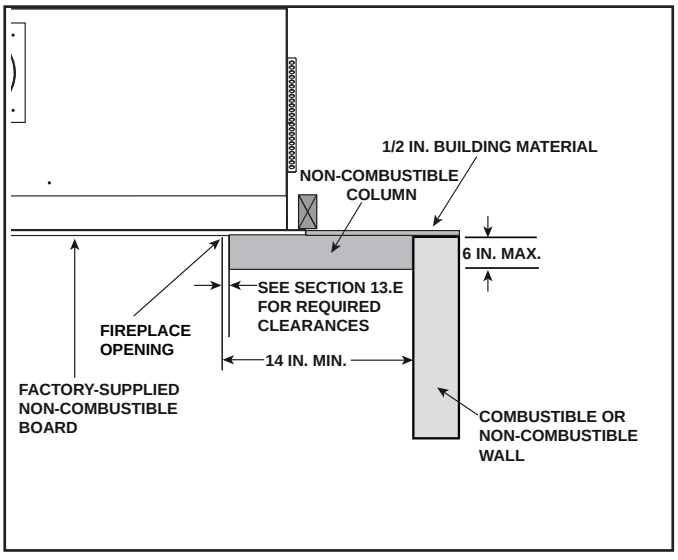


Figure 13.8 Non-Combustible Mantel Leg and Wall Projections

Non-Combustible Zone

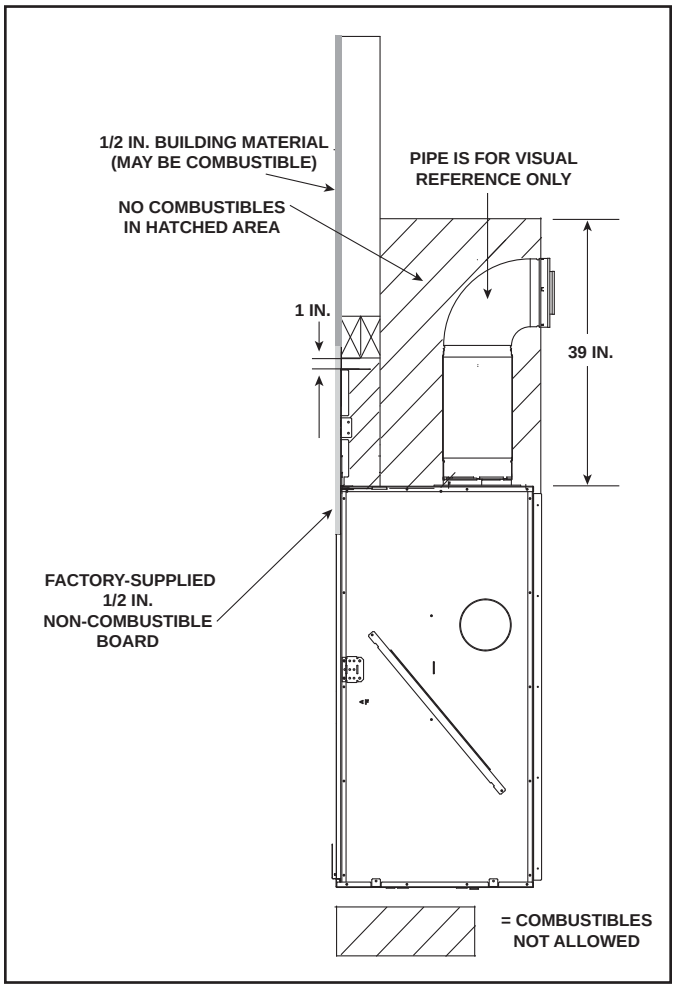
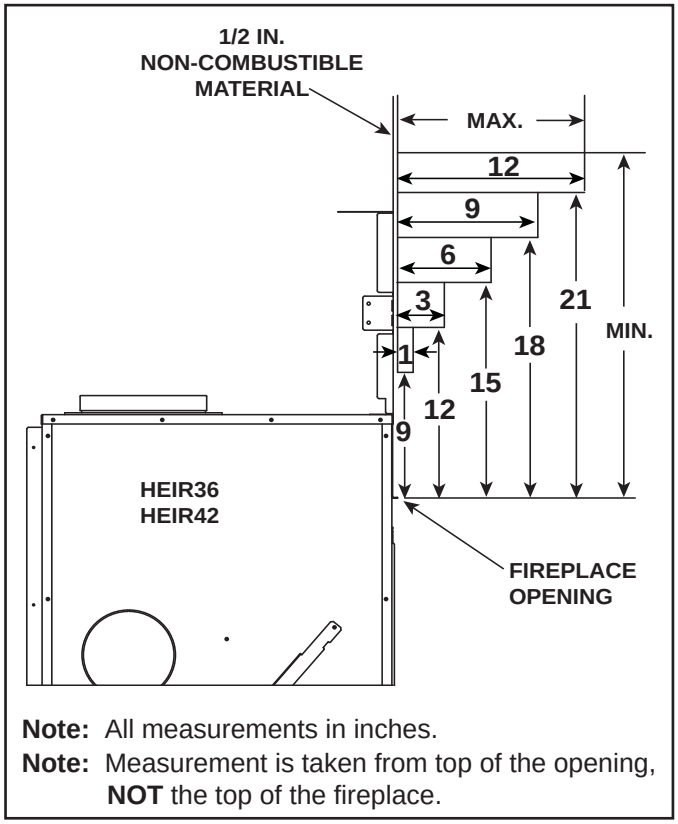

1/2 IN. BUILDING MATERIAL (MAY BE COMBUSTIBLE)
PIPE IS FOR VISUAL REFERENCE ONLY
NO COMBUSTIBLES IN HATCHED AREA
1 IN.
39 IN.
FACTORY-SUPPLIED 1/2 IN. NON-COMBUSTIBLE BOARD
= COMBUSTIBLES NOT ALLOWED

Figure 13.9 Non-Combustible Zone

Combustible Mantel Projections

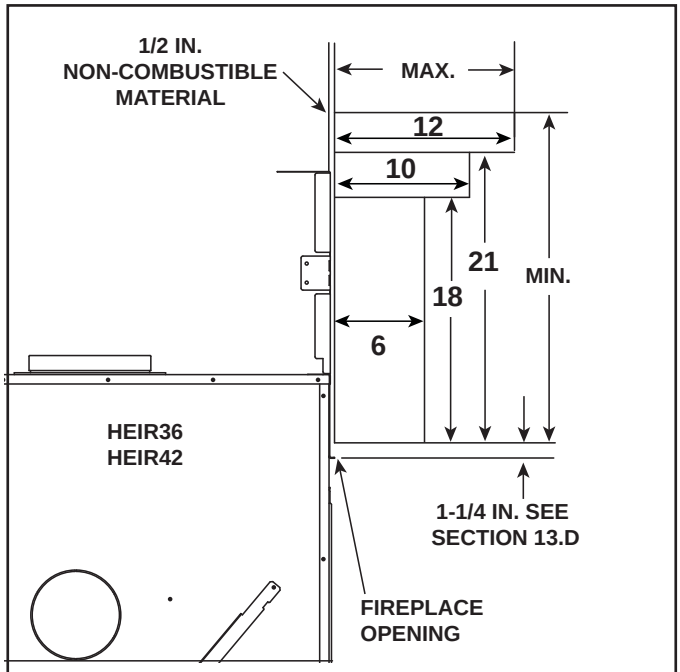


Note: All measurements in inches.

Note: Measurement is taken from top of the opening, **NOT** the top of the fireplace.

Figure 13.10 Combustible Mantel Allowance - HEIR36, HEIR42

Non-Combustible Mantel Projections

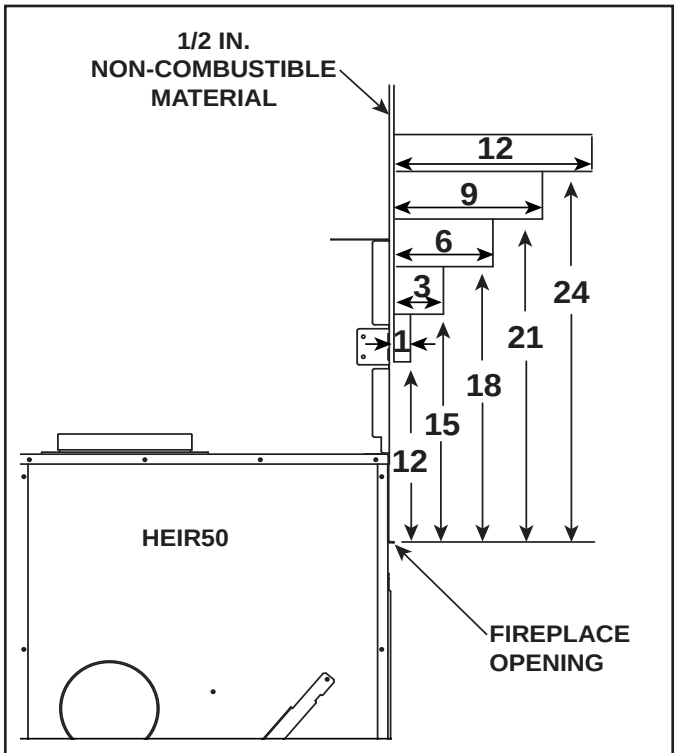


Note: All measurements in inches.

Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Figure 13.12 Non-Combustible Mantel Allowance - HEIR36, HEIR42

Combustible Mantel Projections

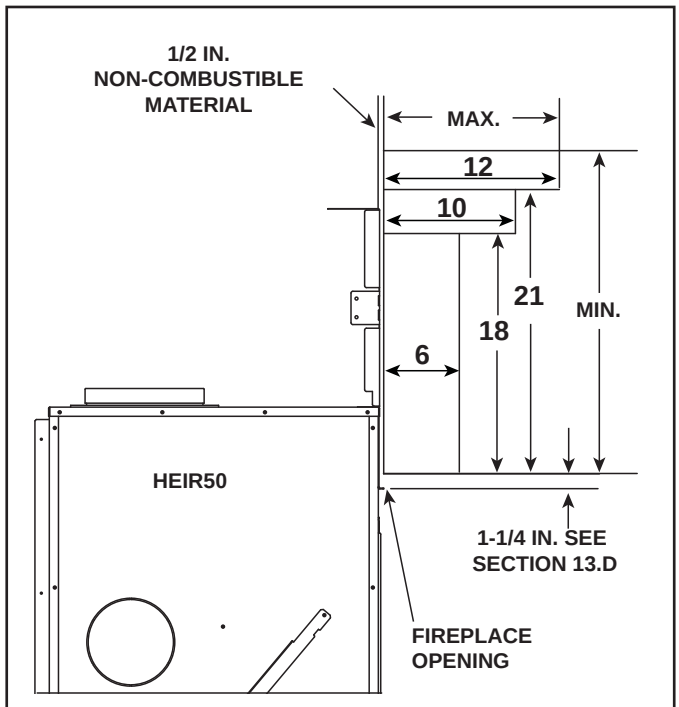


Note: All measurements in inches.

Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Figure 13.11 Combustible Mantel Allowance - HEIR50

Non-Combustible Mantel Projections



Note: All measurements in inches.

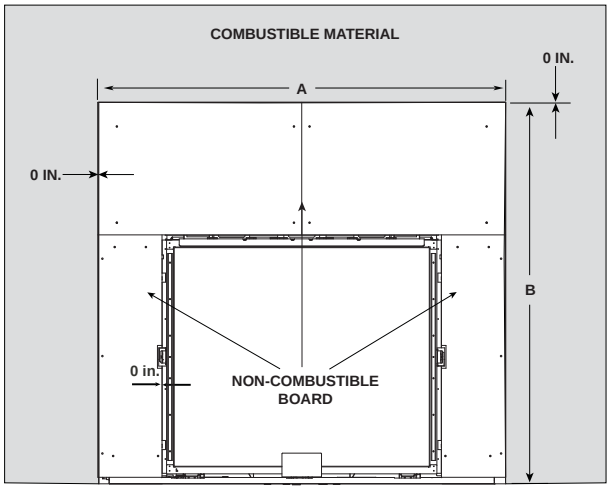
Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Figure 13.13 Non-Combustible Mantel Allowance - HEIR50

D. Facing Material

- Metal front faces may be covered with non-combustible materials only.
- Facing and/or finishing materials must not interfere with air flow through louvers, operation of louvers or doors, or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.

***WARNING! Risk of Fire! DO NOT** apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Overlapping materials could ignite and will interfere with proper operation of doors and louvers.*



MODEL	A		B	
	in.	mm	in.	mm
HEIR36	61	1549	57-5/8	1464
HEIR42	67	1702	62-5/8	1591
HEIR50	75	1905	66-5/8	1692

Figure 13.14 Non-combustible Facing Diagram

E. Doors

A door (decorative front) is required for this appliance. Only doors certified for use with this appliance model may be used. Contact your dealer for a list of doors that may be used. Once you have determined what kind of door and finishing material is going to be used on the fireplace, you may use the table below which shows the door models and the finishing material thickness allowed. For an inside fit there is an available template to ensure that proper door clearances are maintained with finishing material with thickness greater than 1 in.

Two styles of decorative doors are approved for use with this appliance: Operable cabinet-style doors and non-operable doors.

OPERABLE DOORS	
RECTANGULAR	
CS-36	
CS-42	
CS-50	
INOPERABLE DOORS	
RECTANGULAR	ARCHED
FS-36	FS-36A
FS-42	FS-42A
FS-50	FS-50A

Table 13.1. Approved Doors (Decorative Fronts)

NOTE: Figure 13.16 shows the minimum clearance from fireplace opening to adjacent finishing materials greater than one inch thick for operable doors. The 1-1/2 inch clearance will allow the doors to open to 90 degrees. Increasing clearance from the fireplace opening to the adjacent finishing materials will allow the doors to open past 90 degrees.

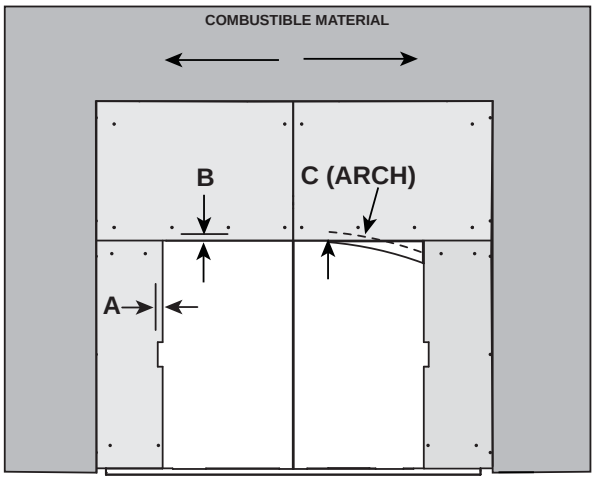
The doors approved for use with this appliance have been designed to be installed by two methods: Overlap Fit or Inside Fit. Before beginning the installation, it is important to determine with method will be used.

Overlap Fit Doors: These doors have been designed to be installed over finishing material up to one inch thick.

Inside Fit Doors: These doors may be recessed into non-combustible finishing material up to 6 inches thick.

NOTICE: Proper clearances from the fireplace opening to any finishing material thicker than 1 inch MUST be maintained.

NOTE: Finishing templates are included with this product. See Section 13.A.



DIMENSION	INOPERABLE DOOR	OPERABLE DOOR
A	3/4 IN.	1-1/2 IN.
B	1-1/4 IN.	1-1/4 IN.
C	1-1/4 IN.	1-1/4 IN.

Figure 13.15 Inside Fit Doors

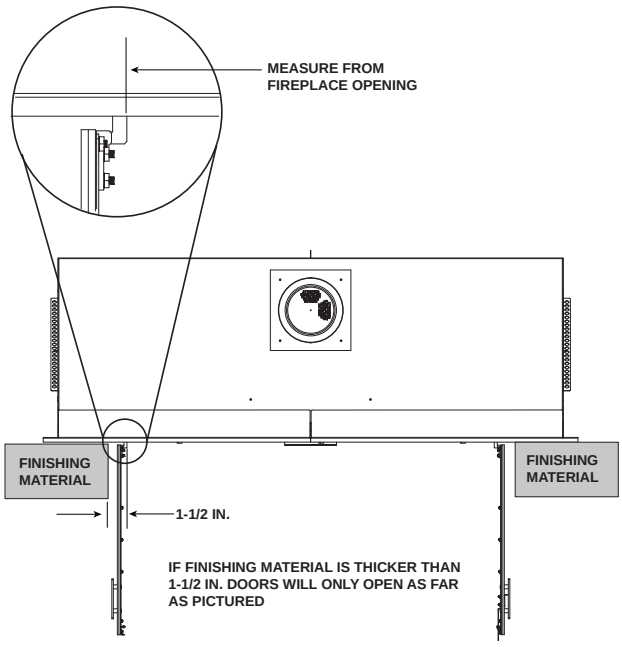

MEASURE FROM FIREPLACE OPENING
FINISHING MATERIAL
FINISHING MATERIAL
1-1/2 IN.
IF FINISHING MATERIAL IS THICKER THAN 1-1/2 IN. DOORS WILL ONLY OPEN AS FAR AS PICTURED

Figure 13.16 Minimum Side Clearance for Operable Doors

14 Appliance Setup

A. Remove Fixed Glass Assembly

See Section 14.H.

B. Remove the Shipping Materials

Remove shipping materials from inside or underneath the firebox.

C. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

D. Accessories

Install approved accessories per instructions included with accessories. Contact your dealer for a list of approved accessories.

WARNING! Risk of Fire and Electric Shock! *Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.*

E. Lava Rock and Mystic Ember Placement

1. Apply the lava rock and Mystic Embers as shown in Figure 14.1. The lava rock and Mystic Embers are to be placed around the base hearth refractory and can be used to conceal the joints of the hearth base refractory pieces.

Figure 14.1. Apply Mystic Embers

F. Glowing Ember Placement

WARNING! Risk of Explosion! *Follow ember placement instructions in manual. DO NOT place embers directly over burner ports. Replace ember material annually. Improperly placed embers interfere with proper burner operation.*

Ember material is shipped with this gas appliance. To place the ember material:

- Embers CANNOT be placed directly over ports. Care should be taken not to cover the lighting trail of ports (from back to front).
- Place dime-size pieces of Glowing Embers® just in front of the port trail, but not on or in between the ports (see Figure 14.2). Care should be taken so that the ports are not covered. Failure to follow this procedure will likely cause lighting and sooting problems.
- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

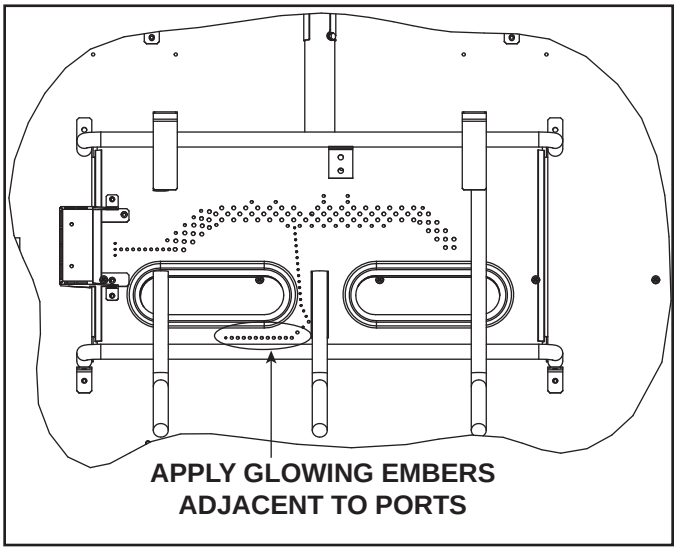


Figure 14.2. Location of Glowing Embers

G. Install the Log Assembly
Log Set Assembly: LOGS-HEIR36
LOGS-HEIR42
Models: HEIR36H, HEIR36S
HEIR42H, HEIR42S

Figure 1.

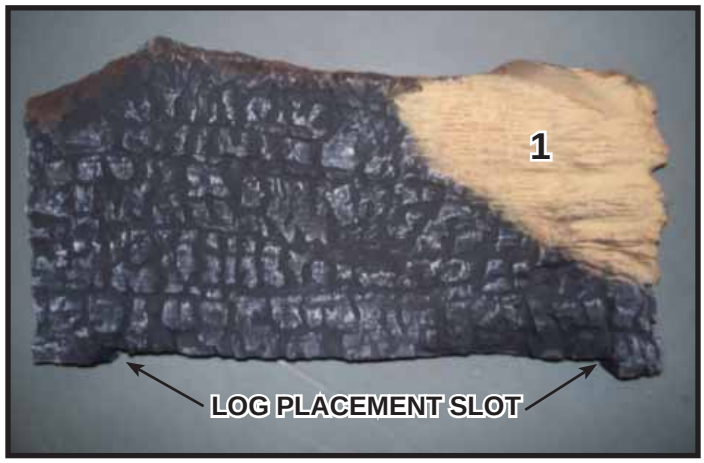


Figure 2.

CAUTION: *Logs are fragile, handle with care.* **Log #1 (2284-701)**: Locate log placement slot on the bottom of log #1. See Figure 2. Mate slot on the bottom of Log #1 with the grate tines. Slide Log #1 toward the rear of appliance until back side of Log #1 contacts the log placement tabs shown in Figure 1. See Figure 3.

Figure 3.

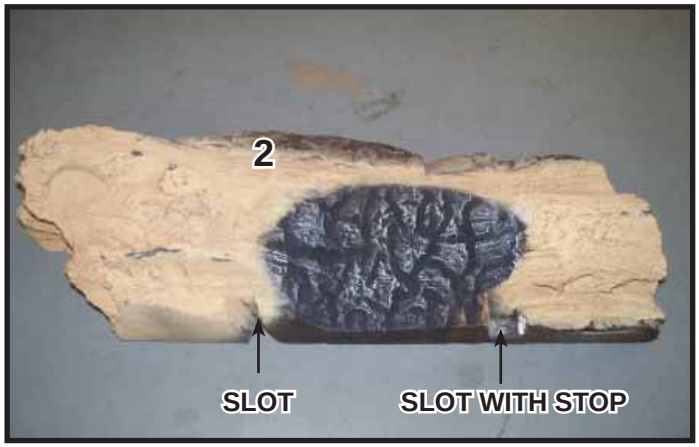


Figure 4.

Log #2 (2284-702): Locate log placement slots on the bottom of Log #2. See Figure 4. Mate slots on the bottom of Log #2 with the left and center grate tines. See Figure 5. Slide log forward toward front of appliance until left front of log contacts back of left grate tine and stop on right side of log contacts the back of the center grate tine. Log should be positioned as shown in Figure 5.

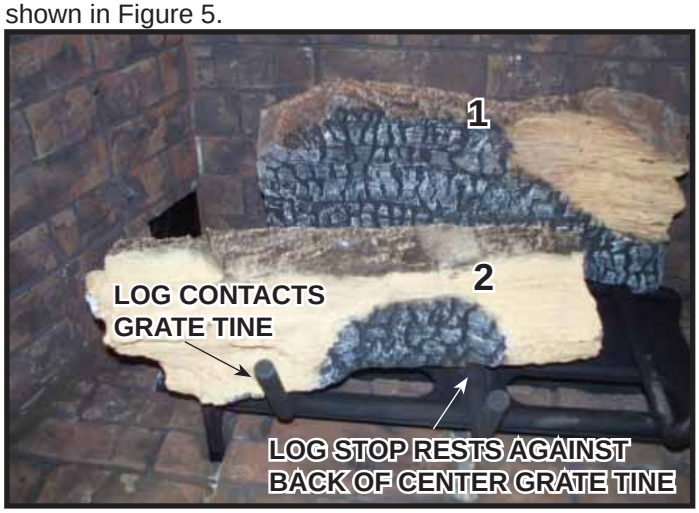


Figure 5.

Log #3 (2283-703 HEIR36) (2284-703 HEIR42): Locate log placement notches on bottom of Log #3. See Figure 6. Place log as shown in Figure 7. Log should be centered on the right side of the burner. Notches on log should rest on grate tine and burner pan. The back left part of Log #3 should contact front side of center grate tine when placed correctly. Log will contact base and right side refractory on HEIR36 only.

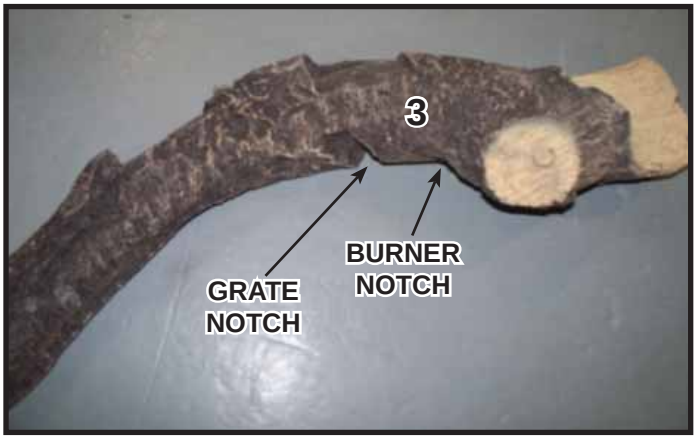


Figure 6. Log Placement Notch

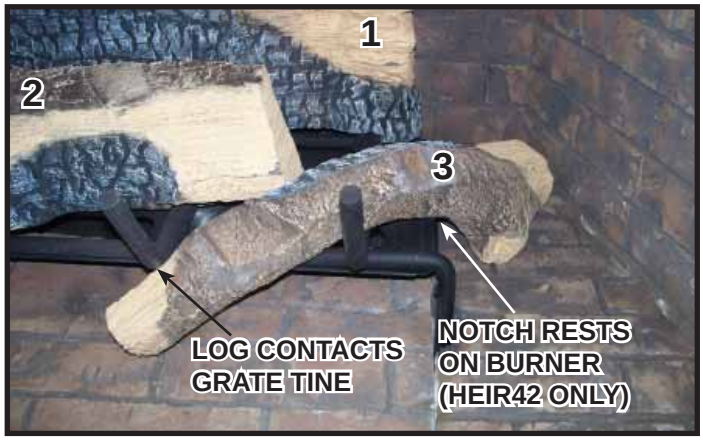


Figure 7. Log #3 Placement

Log #4 (2284-704): See Figure 8. Place Log #4 in appliance with burned edge facing center. The bottom of Log #4 will rest on bottom refractory. Slide bottom of Log #4 forward until it contacts back side of Log #2. Log should also be positioned as close to the burner as possible. Rest top of Log #4 in notch on top left corner of Log #1. See Figure 3 and Figure 9.

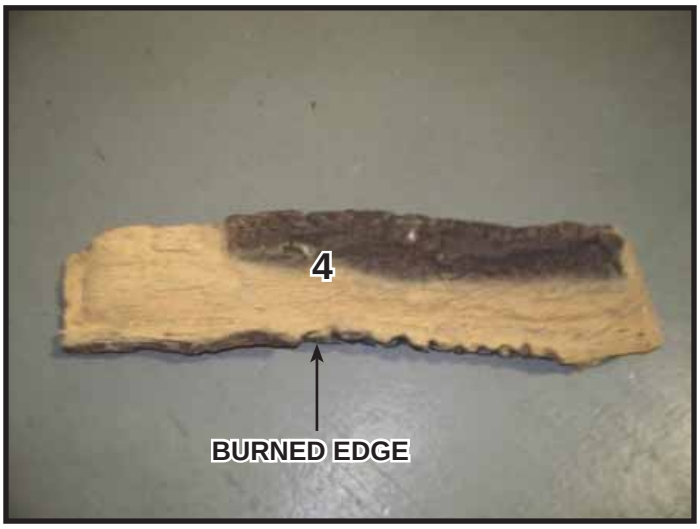


Figure 8.

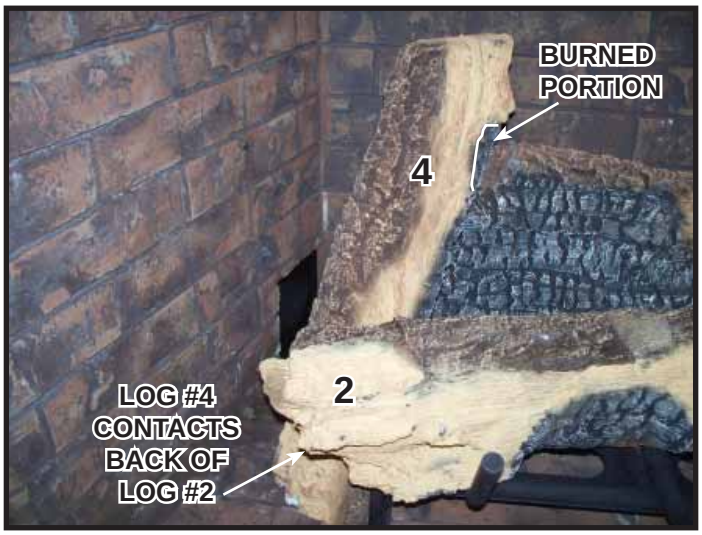


Figure 9.

Log #5 (2284-705): Locate flat areas on Log #1 and Log #3 that will be used to position Log #5. See Figure 11. Place Log #5 into appliance as shown in Figure 12. Log #5 should contact base refractory and rest on the flat areas as shown in Figure 11. Burned portion of Log #5 should be in front of Log #1. Log should be about 1/2 inch from front outer edge of base refractory when properly positioned. See Figure 12.

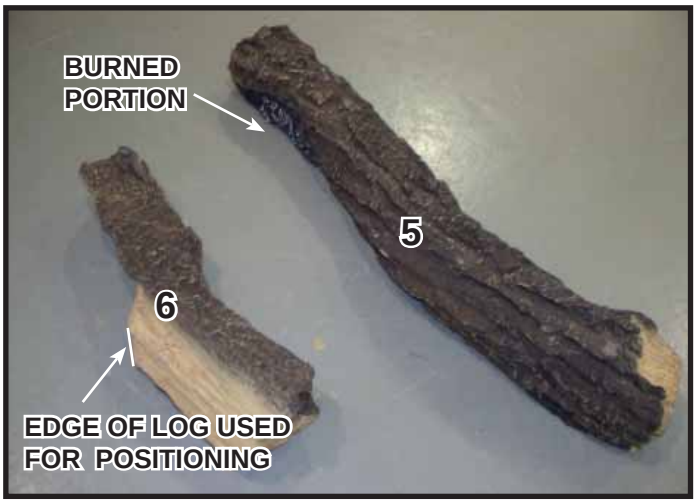


Figure 10.

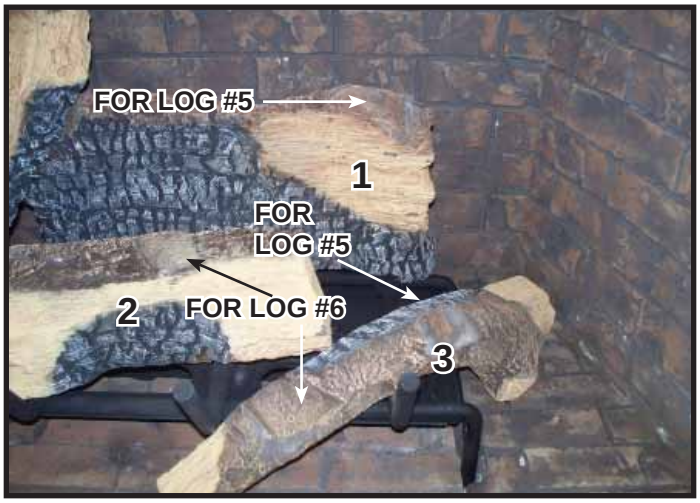


Figure 11.

Log #6 (2284-706): Locate flat areas on Log #2 and Log #3 that will be used to position Log #6. See Figure 11. Place Log #6 into appliance as shown in Figure 13. Edge of Log #6, highlighted in Figure 10, will be about 1/2 inch from the center grate tine on both HEIR36 and HEIR42. Right side of log contacts right grate tine.

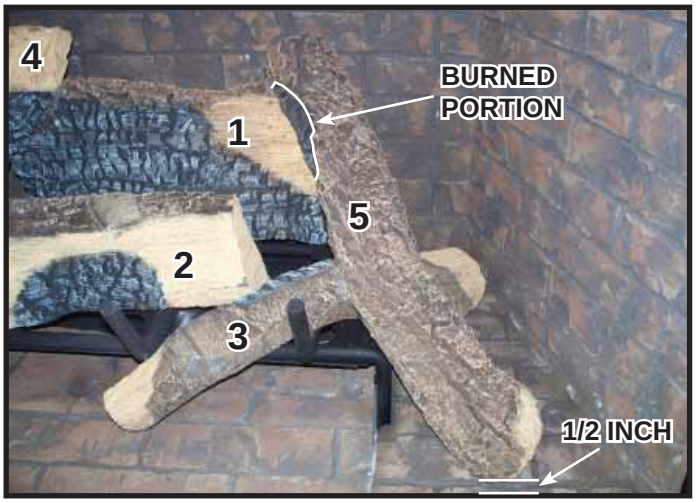


Figure 12. Log #5 Placement

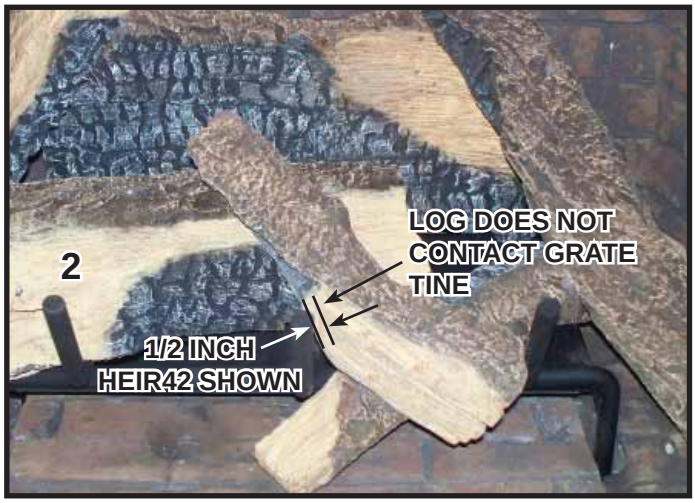


Figure 13. Log #6 Placement

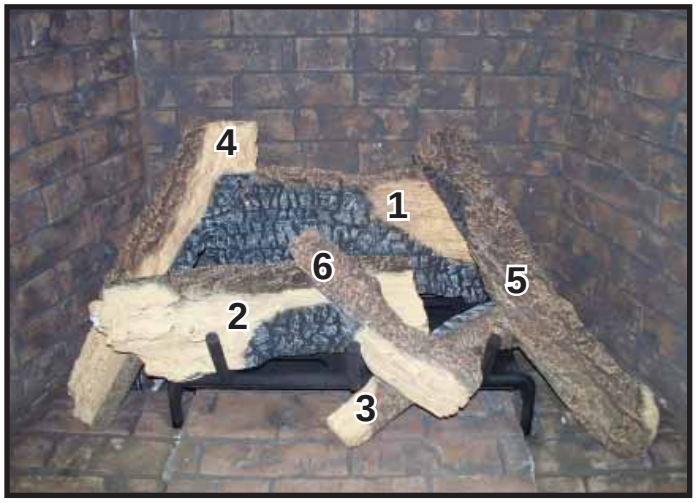


Figure 14. Log Set Installed. 2284-935C

LOG PLACEMENT INSTRUCTIONS

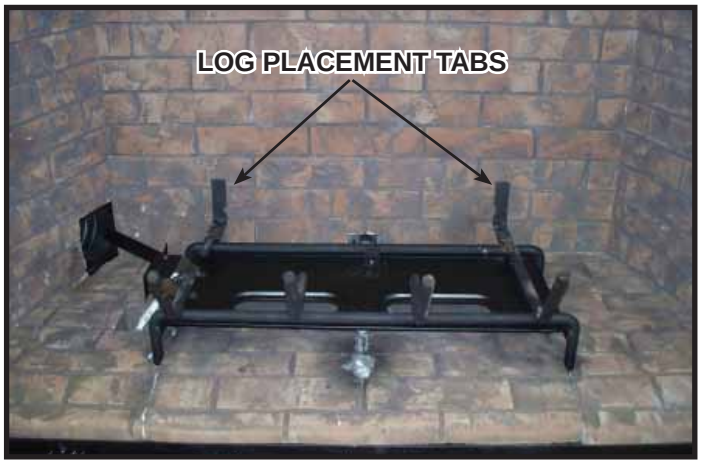


Figure 1.

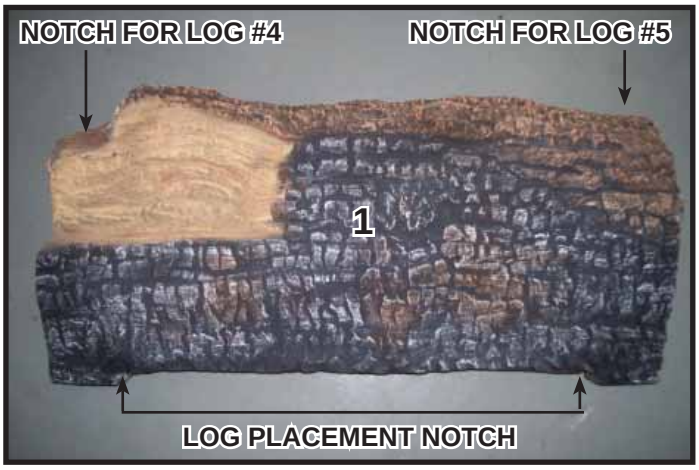


Figure 2.

CAUTION: *Logs are fragile, handle with care.* **Log #1 (2285-701)**: Locate log placement notch on the bottom of log #1. See Figure 2. Mate notch on the bottom of Log #1 with outside grate tines. Slide Log #1 toward the rear of appliance until back side of Log #1 contacts the log placement tabs shown in Figure 1. See Figure 3.

Figure 3.

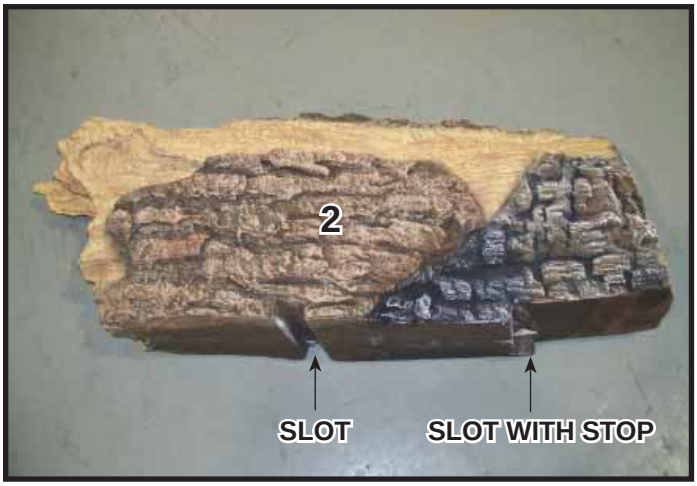


Figure 4.

Log #2 (2285-702): Locate log placement slots on the bottom of Log #2. See Figure 4. Mate slots on the bottom of Log #2 with the left and left center grate tines. See Figure 5. Slide log forward toward front of appliance until left front of log contacts back of left grate tine and stop on right side of log contacts the back of the left center grate tine.

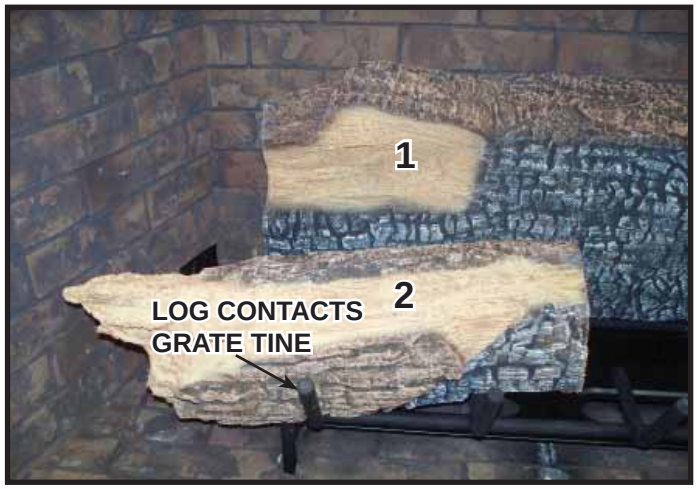


Figure 5.

Figure 6.

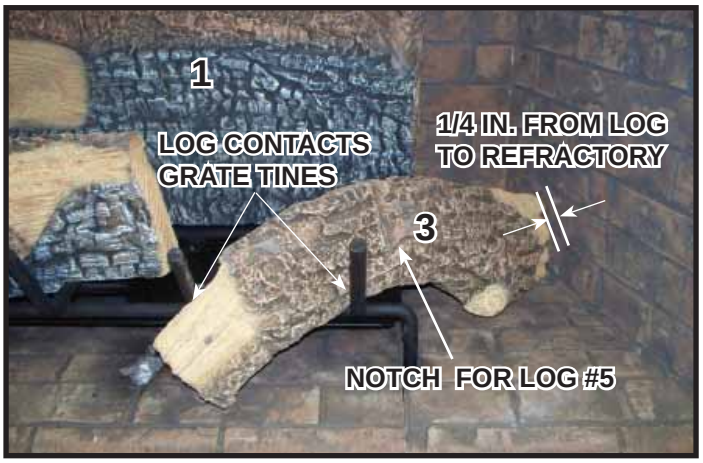


Figure 7.

Log #3 (2285-703): Place log in appliance as shown in Figure 7. Log #3 should contact right and right center grate tines and also be about 1/4 inch from right side refractory.

Log #4 (2285-704): See Figure 8. Place Log #4 in appliance with burned edge facing center. The bottom of log #4 will rest against left side refractory and on bottom refractory. Slide bottom of Log #4 toward front of appliance until it contacts back side of Log #2. Rest top of Log #4 in notch on top left corner of Log #1. See Figure 2 and Figure 9.

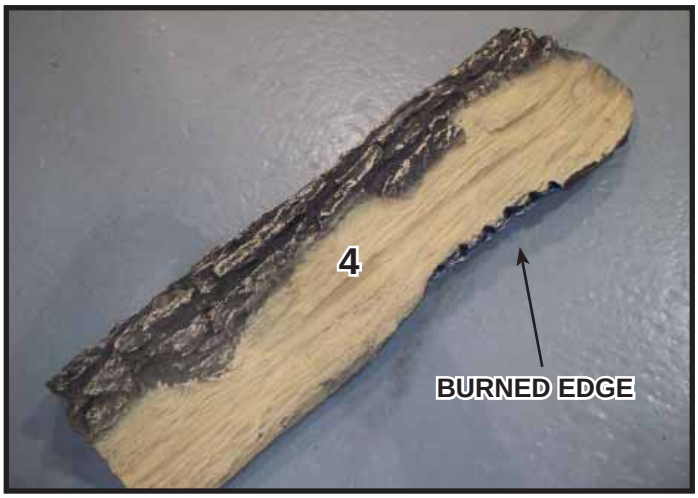


Figure 8.

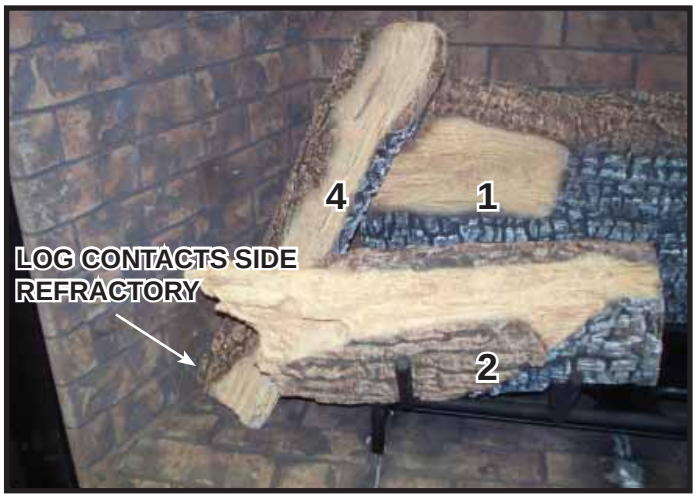


Figure 9.

Log #5 (2285-705): Locate notched area on Log #1 that will be used to position Log #5. See Figure 2. Place Log #5 into appliance with “burned” edge toward center of appliance. See Figure 11. Log will sit on bottom refractory and should be about 1-1/2 inches from right grate tine. The center of the log should rest in notch on Log #3 and the top of Log #5 should rest in the notch on Log #1.

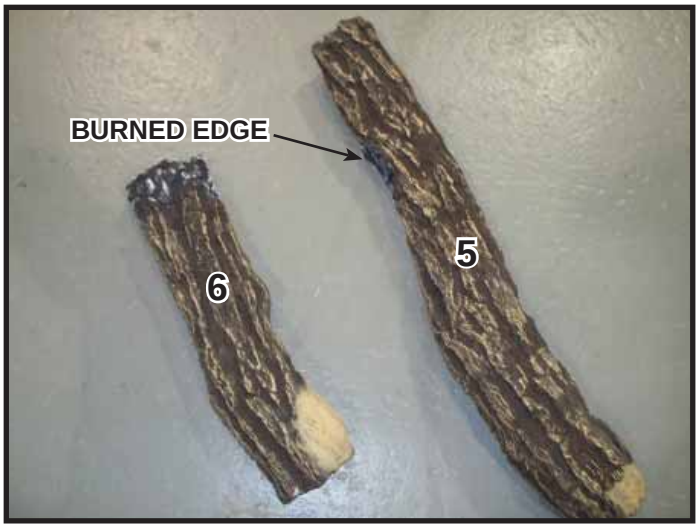


Figure 10.

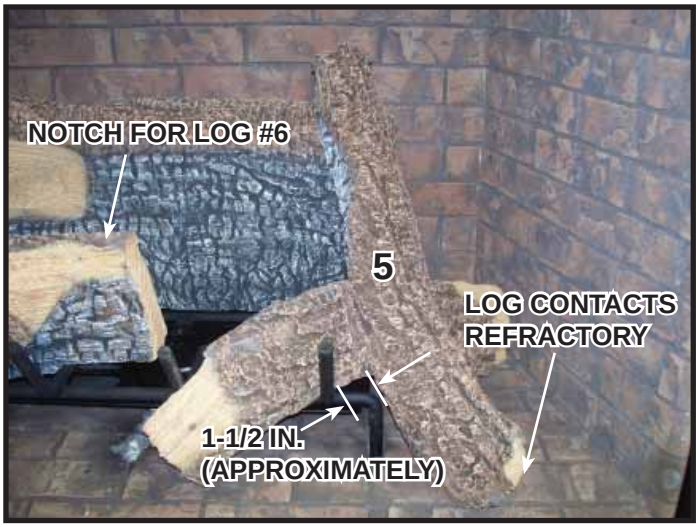


Figure 11.

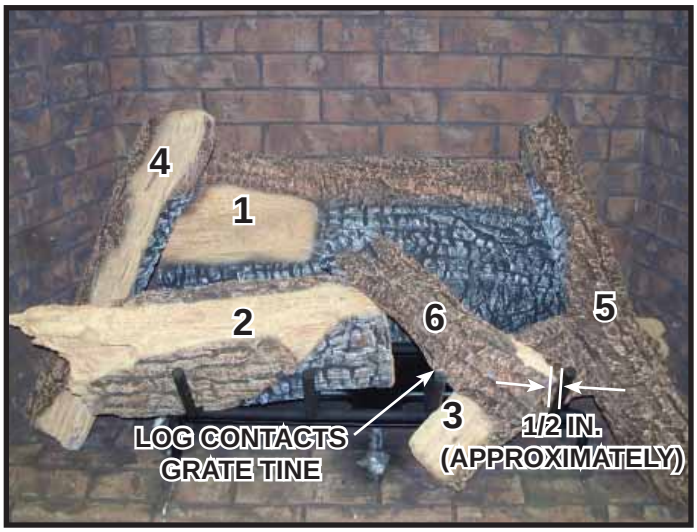


Figure 12. Log Set Installed

Log #6 (2285-706): Place Log #6 into appliance as shown in Figure 12. Bottom corner of Log #6 should be about 1/2 inch from right hand grate tine. Log will contact right center grate tine. The top of Log #6 should rest in the notch on Log #2.

2285-935

H. Fixed Glass Assembly

WARNING! Risk of Asphyxiation! *Handle fixed glass assembly with care. Inspect the gasket to ensure it is undamaged and inspect the glass for cracks, chips or scratches.*

- ***DO NOT*** *strike, slam or scratch glass.*
- ***DO NOT*** *operate fireplace with glass removed, cracked, broken or scratched.*
- *Replace as a complete assembly.*

WARNING! Risk of Injury! *Glass assembly installation and removal must be performed by a qualified service technician. See chart below for glass assembly weights.*

- ***HEIR42 AND HEIR50 MODELS: It is recommended that Glass installation and removal be performed by two qualified service technicians.***

Glass Weights		
HEIR36	**HEIR42**	**HEIR50**
32 lbs	**41 lbs**	**54 lbs**

CAUTION! Risk of Cuts or Abrasions. *Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.*

Removing Fixed Glass Assembly

This fixed glass assembly is held in place by lower glass clips, side clips and top retaining rail. To remove clips, engage the spring clips with the tool and pull tool out slightly.

1. The glass clip removal/installation tool is fastened to the lower right corner of the fireplace. Remove tool by removing one screw. See Figure 14.3. If glass clip removal tool becomes misplaced, a cotter pin removal tool may be used. Replace glass clip removal/installation tool in same place with the one screw after use.

NOTICE: *Protect and prevent the hearth from damage by covering it with a drop cloth.*

Figure 14.3. Glass Clip Tool

Figure 14.4. Glass Clip Tool Location

2. To disengage bottom glass clips, position the glass clip removal/installation tool parallel to the floor and insert it about two inches into the gap between the glass frame and the front bottom fireplace lip. Insert the tool on the lower left side of the glass clip and move to the right to engage the clip. Using one motion, pull out slightly while pushing down to disengage bottom glass clip. Repeat for the other bottom spring clips. There are three on the HEIR36 and four on the HEIR42 and HEIR50. See Figure 14.5.

Figure 14.5 Inserting Glass Clip Tool

3. Disengage the left and right glass clips one at a time using the glass clip removal/installation tool. Insert tool from the top side of the side glass clip. Pull the glass tool out slightly to disengage the side clip. See Figure 14.9.
4. Grasp the left and right sides of the glass assembly and carefully pull outward to remove the bottom from the support tabs on the bottom glass clips. Lower the glass to remove it from the top retainer rail.

CAUTION! Risk of Injury! DO NOT *put fingers under glass frame. Fingers may get pinched by glass frame during removal.*

Replacing Fixed Glass Assembly

This fixed glass assembly is held in place by two side clips, one top retaining rail and lower glass clips. The HEIR36 has three lower glass clips and the HEIR42 and HEIR50 have four lower glass clips. To remove clips, engage the spring clips with the tool and pull tool out slightly. Rotate wrist left and right to disengage clip. The glass clip tool is shown in Figure 14.3.

1. Tool is fastened to the lower right corner of the fireplace. Remove tool by removing one screw. If glass clip removal tool becomes misplaced, a cotter pin removal tool may be used.
2. Position the fixed glass assembly so that it is about eight inches from the face of the appliance. See Figure 14.6. An arch door application will require the glass to be installed at a steeper angle.

Figure 14.6

3. Center the fixed glass assembly from left to right inside the top of the appliance opening.

   The glass frame has tabs on the bottom that coincide with the bottom glass clip location. The HEIR36 has three tabs and the HEIR42 and HEIR50 have four tabs. If the glass is not centered, it can not be installed properly. Align the notch at the top center of the glass frame assembly with the notch on the top retaining rail. See Figure 14.7.

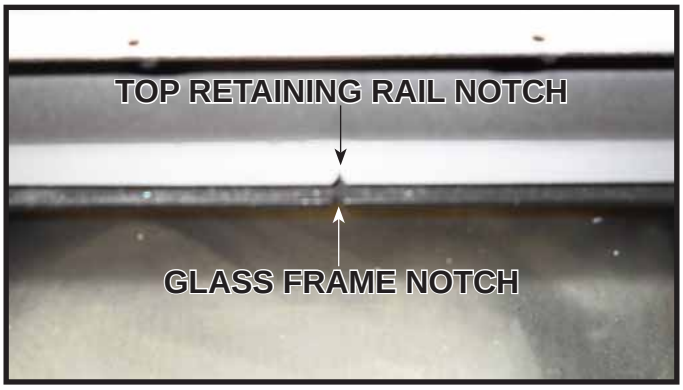


Figure 14.7. Align Notches

4. Install fixed glass assembly by lifting it up and sliding it into the top retaining rail. Grasp the fixed glass assembly on the sides.

CAUTION! Risk of Injury! DO NOT *put fingers under glass frame. Fingers may get pinched by glass frame during installation.*

   Once the glass is installed tightly into the top retainer rail, push in the bottom so that the glass assembly rests on the support tabs on the glass clip. See Figure 14.8.

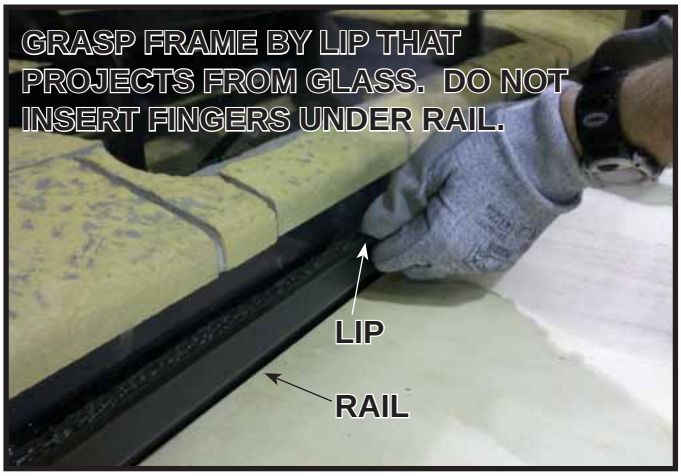


Figure 14.8.

5. Ensure the fixed glass assembly is situated tight against the firebox face. Engage the left and right glass clips using the glass clip tool. See Figure 14.9.

Figure 14.9

6. Once the left and right glass clips are installed, engage the bottom clips by inserting the glass clip tool at a sharp downward angle to get between the gap between the glass frame and the front bottom fireplace lip. See Figure 14.10.
7. Return glass tool to its shipping location in the lower right corner of the appliance and secure with one screw.

Figure 14.10

I. Air Shutter Setting

Air shutter settings should be adjusted by a qualified service technician at the time of installation. The air shutter is set at the factory for minimum vertical vent run. Adjust air shutter for longer vertical runs. See Figure 14.11.

Flame Appearance

- After 15 minutes, the flame will be a yellow/blue mix. The front flames may be blue at this time.
- After 30 minutes, the flame should be yellow with some blue flame near the burner ports.
- After 1 hour, the flame will be at is maximum maturity.

Note: Visually, a propane flame may differ from a natural gas flame. This is due to the different chemical compositions that make up both fuel types. In general, the LP flames may be a little shorter and much brighter than a natural gas flame.

To adjust air shutter:

- Loosen the screw on the burner assembly.
- The air shutter should only be adjusted in increments of 1/8 in.
- To close the air shutter, turn shutter clockwise.
- To open air shutter, turn shutter counterclockwise.
- Tighten the screw.

NOTICE: *Flame should not appear orange or stretch to the top refractory. If sooting occurs, provide more air by opening the air shutter.*

Figure 14.11 Air Shutter

Air Shutter Settings

MODEL	NG	LP
HEIR36	5/8 in.	Full Open
HEIR42	5/8 in.	Full Open
HEIR50	5/8 in.	Full Open

15 Troubleshooting

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service technician in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician. Contact your dealer to arrange a service call by a qualified service technician.

A. IntelliFire Plus™ Ignition System

Symptom	Possible Cause	Corrective Action
1. Pilot won't light. The ignitor/module makes noise, but no spark.	A. Incorrect wiring.	Verify "S" wire (white) for sensor and "I" wire (orange) for ignitor are connected to correct terminals on module and pilot assembly.
	B. Loose connections or electrical shorts in the wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Verify connections underneath pilot assembly are tight; also verify igniter and flame sense wires are not grounding out to metal chassis, pilot burner, pilot enclosure, mesh screen if present, or any other metal object.
	C. Ignitor gap is too large.	Verify gap of igniter to right side of pilot hood. The gap should be approximately .17 in. or 1/8 in. (3 mm).
2. Pilot won't light, there is no noise or spark.	A. No power, transformer installed incorrectly, or depleted batteries.	Verify that transformer is installed and plugged into module. Check voltage of transformer at connection to module. Acceptable readings of a good transformer are between 6.4 and 6.6 volts AC. Battery power supply voltage must be at least 4 volts. If less than 4 volts, replace batteries.
	B. A shorted or loose connection in wiring configuration or wiring harness.	Remove and reinstall the wiring harness that plugs into module. Verify there is a tight fit. Verify pilot assembly wiring to module. Remove and verify continuity of each wire in wiring harness. Replace any damaged components.
	C. Improper wall switch wiring.	Verify that 110/VAC power is "ON" to junction box.
	D. Module not grounded.	Verify black ground wire from module wire harness is grounded to metal chassis of appliance.
3. Pilot sparks, but Pilot will not light.	A. Gas supply.	Verify that incoming gas line ball valve is "open". Verify that inlet pressure reading is within acceptable limits.
	B. Ignitor gap is too large.	Verify gap of igniter to right side of pilot hood. The gap should be approximately .17 in. or 1/8 in. (3 mm).
	C. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance.
	D. Pilot valve solenoid.	Verify that 1.5 to 1.8 VDC is supplied to pilot solenoid from module. If below 1.5 volts, replace module. If 1.5 volts or greater, replace valve.

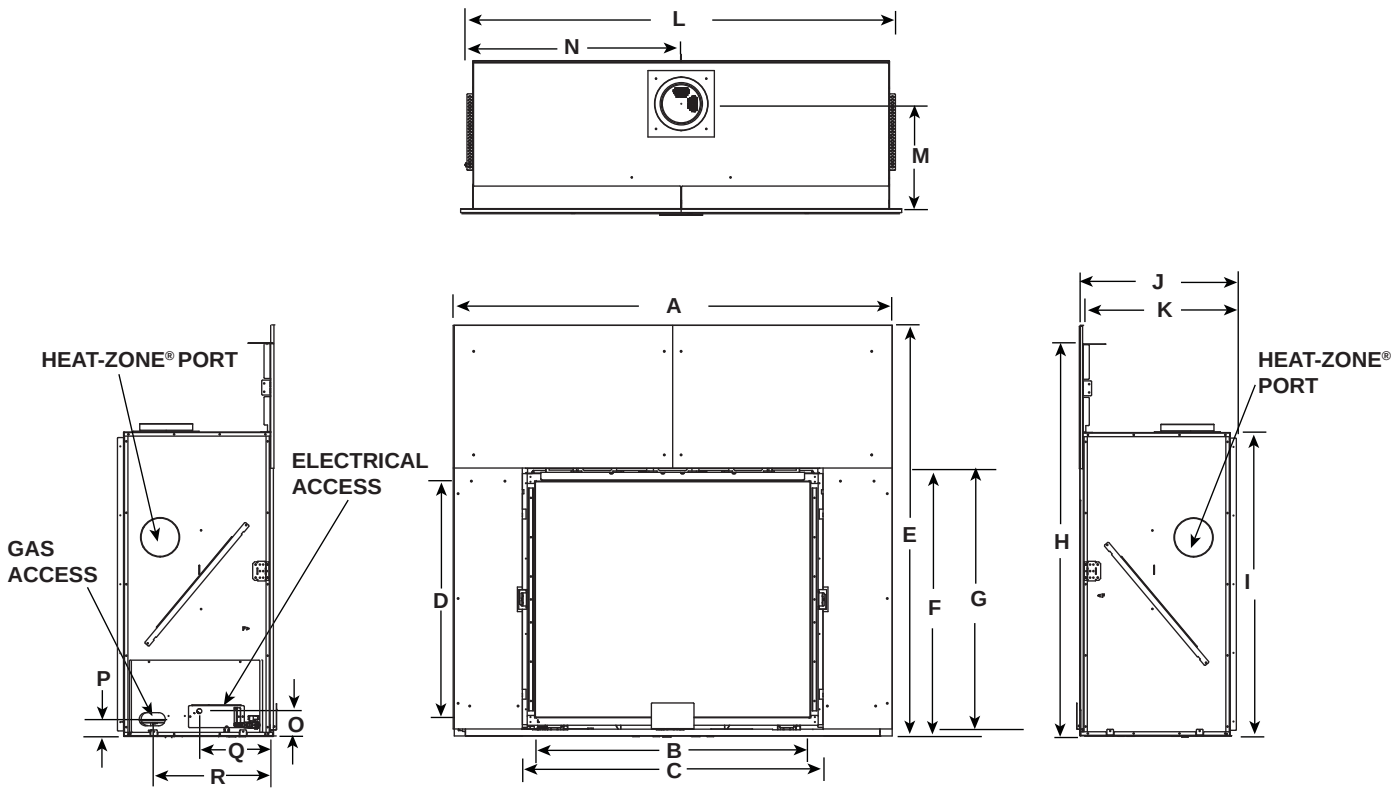
Troubleshooting (continued)

Symptom	Possible Cause	Corrective Action
4. Pilot lights but continues to spark, and main burner will not ignite. (If the pilot continues to spark after the pilot flame has been lit, flame rectification has not occurred.)	A. A shorted or loose connection in flame sensing rod.	Verify all connections to wiring diagram in manual. Verify connections underneath pilot assembly are tight. Verify flame sense or igniter wires are not grounding out to metal chassis, pilot burner, pilot enclosure or screen if present, or any other metal object.
	B. Poor flame rectification or contaminated flame sensing rod.	With fixed glass assembly in place, verify that flame is engulfing flame sensing rod on left side of pilot hood. Flame sensing rod should glow shortly after ignition. With a multimeter, verify that current in series between module and sense lead is at least 0.14 microamps. Verify correct pilot orifice is installed and gas inlet is set to pressure specifications. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod.
	C. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance. Verify that wire harness is firmly connected to the module.
	D. Damaged pilot assembly or contaminated flame sensing rod.	Verify that ceramic insulator around the flame sensing rod is not cracked, damaged, or loose. Verify connection from flame sensing rod to white sensor wire. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod. Verify continuity with a multi-meter with ohms set at lowest range. Replace pilot if any damage is detected.
5. Appliance lights and runs for a few minutes and then shuts down and/or appliance cycles on and off.	A. A shorted or loose connection in flame sensing rod.	Verify all connections to wiring diagram in manual. Verify connections underneath pilot assembly are tight. Verify flame sense or igniter wires are not grounding out to metal chassis, pilot burner, pilot enclosure or screen if present, or any other metal object.
	B. Poor flame rectification or contaminated flame sensing rod.	With fixed glass assembly in place, verify that flame is engulfing flame sensing rod on left side of pilot hood. Flame sensing rod should glow shortly after ignition. With a multimeter, verify that current in series between module and sense lead is at least 0.14 microamps. Verify correct pilot orifice is installed and gas inlet is set to pressure specifications. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod.
	C. Logs are set up incorrectly.	Remove and reinstall logs per the log placement instructions.
	D. Damaged pilot assembly or contaminated flame sensing rod.	Verify that ceramic insulator around the flame sensing rod is not cracked, damaged, or loose. Verify connection from flame sensing rod to white sensor wire. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod. Verify continuity with a multi-meter with ohms set at lowest range. Replace pilot if any damage is detected.

16 Reference Materials

A. Appliance Dimension Diagram

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 5.

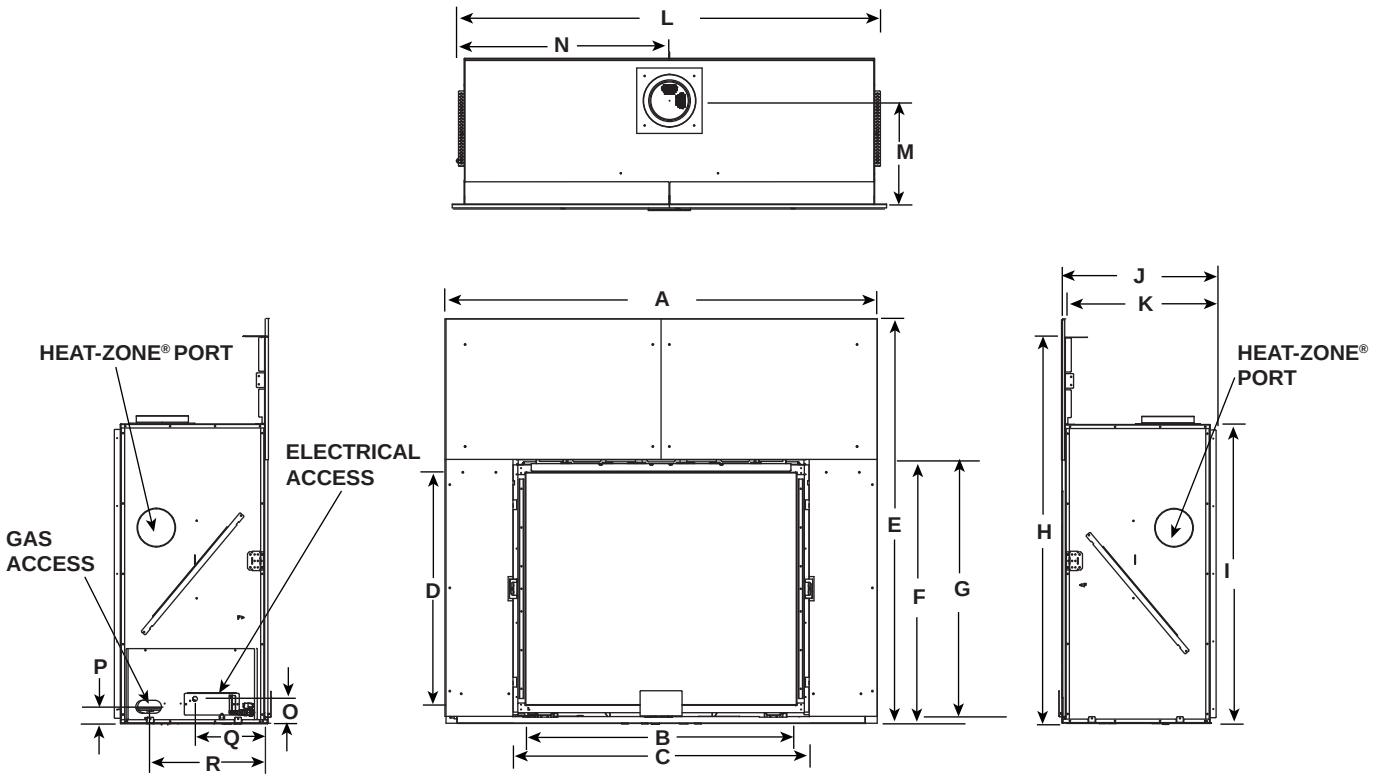


Appliance Dimensions Table HEIR36

Location	Inches	Millimeters
A	61	1549
B	35-7/8	911
C	39-7/8	1013
D	31-1/16	789
E	57-5/8	1464
F	35-3/16	894
G	34-3/16	868
H	54-15/16	1395
I	41-3/8	1051

Location	Inches	Millimeters
J	24	610
K	23-1/2	597
L	59-1/4	1505
M	16	406
N	29-5/8	752
O	3-7/8	98
P	2-3/4	70
Q	10-7/8	276
R	16-1/8	410

Figure 16.1 Appliance Dimensions (HEIR36)



Appliance Dimensions Table HEIR42

Location	Inches	Millimeters
A	67	1702
B	41-7/8	1064
C	45-7/8	1165
D	36-1/16	916
E	62-5/8	1591
F	40-3/16	1021
G	39-3/16	995
H	59-15/16	1522
I	46-3/8	1178

Location	Inches	Millimeters
J	24	610
K	23-1/2	597
L	65-5/16	1659
M	16	406
N	32-11/16	830
O	3-7/8	98
P	2-3/4	70
Q	10-7/8	276
R	16-1/8	410

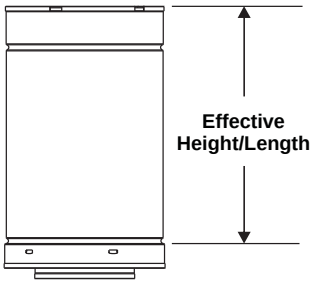
Appliance Dimensions Table HEIR50

Location	Inches	Millimeters
A	75	1905
B	49-7/8	1267
C	53-7/8	1368
D	40-1/16	1018
E	66-5/8	1692
F	44-3/16	1122
G	43-3/16	1097
H	63-15/16	1624
I	50-3/8	1280

Location	Inches	Millimeters
J	24	610
K	23-1/2	597
L	73-5/16	1862
M	16	406
N	36-11/16	932
O	3-7/8	98
P	2-3/4	70
Q	10-7/8	276
R	16-1/8	410

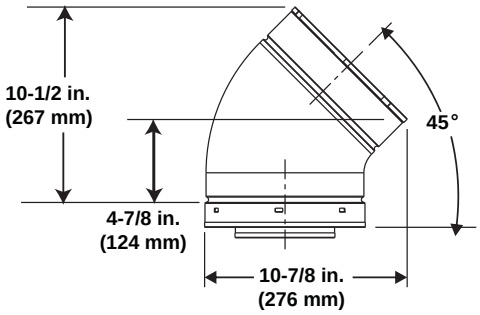
Figure 16.2 Appliance Dimensions (HEIR42 & HEIR50)

B. Vent Components Diagrams

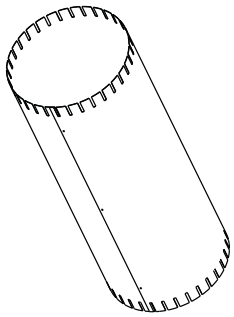


DVP Pipe (see chart)

Pipe	Effective Length	
	Inches	Millimeters
DVP4	4	102
DVP6	6	152
DVP12	12	305
DVP24	24	610
DVP36	36	914
DVP48	48	1219
DVP6A	3 to 6	76 to 152
DVP12A	3 to 12	76 to 305
DVP12MI	3 to 12	76 to 305
DVP24MI	3 to 24	76 to 610

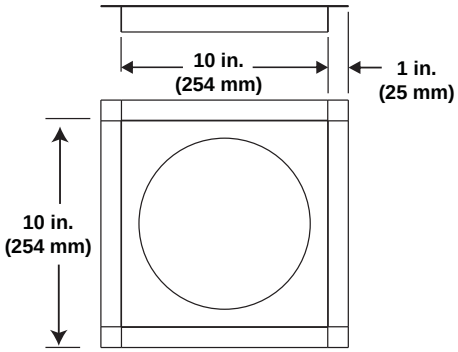


DVP45 (45º Elbow)

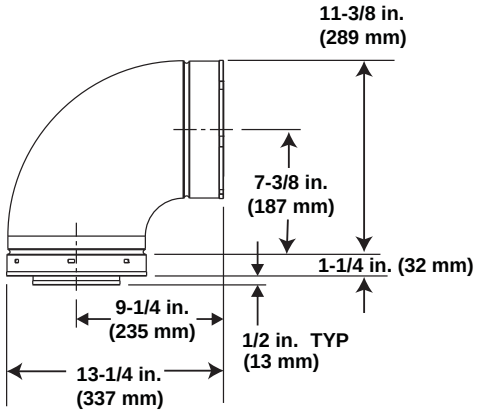


Assembled
Height: 24 in./610 mm
Diameter: 10 in./254 mm

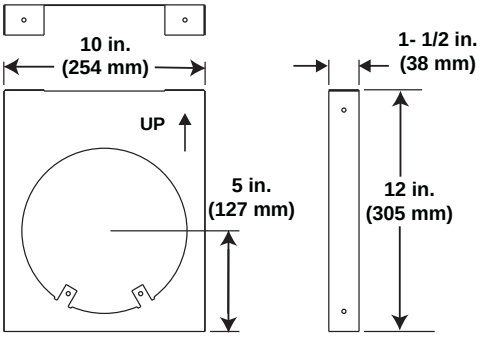
DVP-AS2



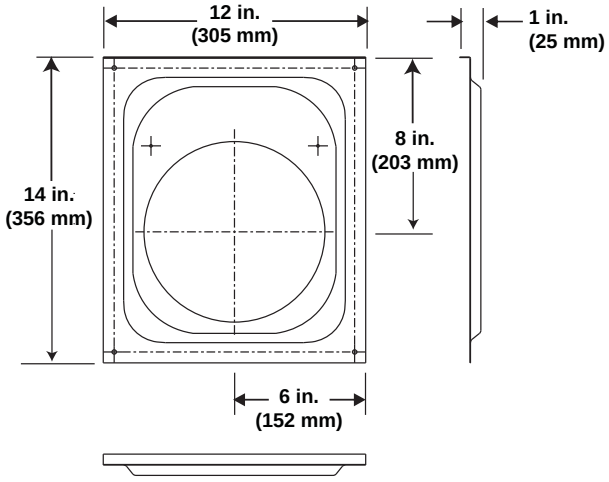
DVP-FS (Ceiling Firestop)



DVP90ST (90° Elbow)



DVP-HVS (Vent Support)

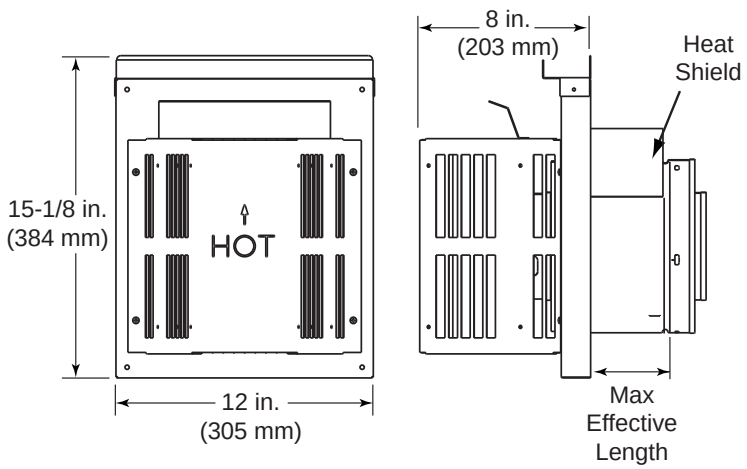


DVP-WS (Wall Shield Firestop)

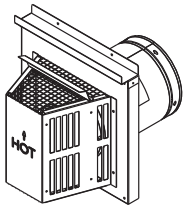
Figure 16.3 DVP vent components

B. Vent Components Diagrams (*continued*)

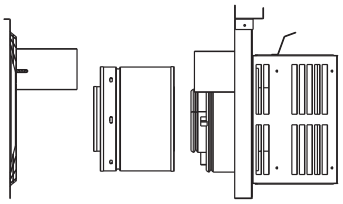
Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). **The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.** If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.



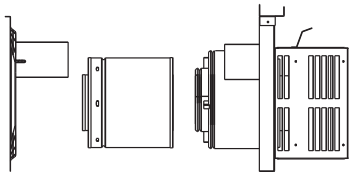
DVP-TRAP
Horizontal Termination Cap



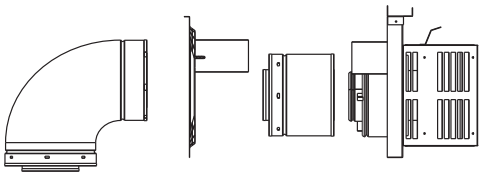
Term Cap	Minimum Effective Length	Maximum Effective Length
Trap1	3-1/8 in.	4-5/8 in.
	79 mm	117 mm
Trap2	5-3/8 in.	9-3/8 in.
	137 mm	238 mm



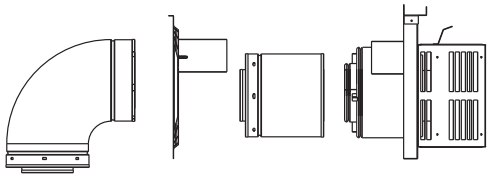
DVP-TRAP1



DVP-TRAP2



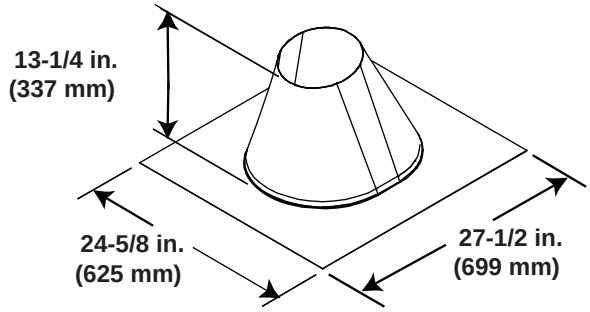
DVP-TRAPK1



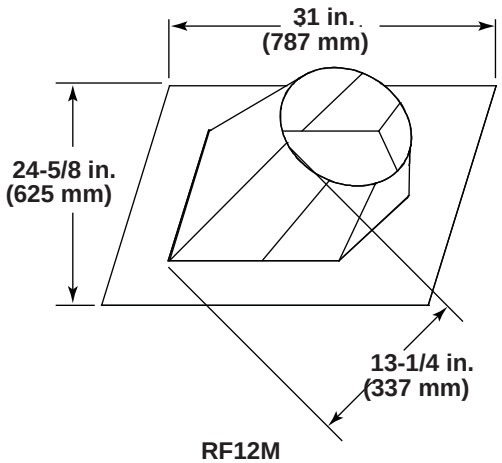
DVP-TRAPK2

Figure 16.4 DVP vent components

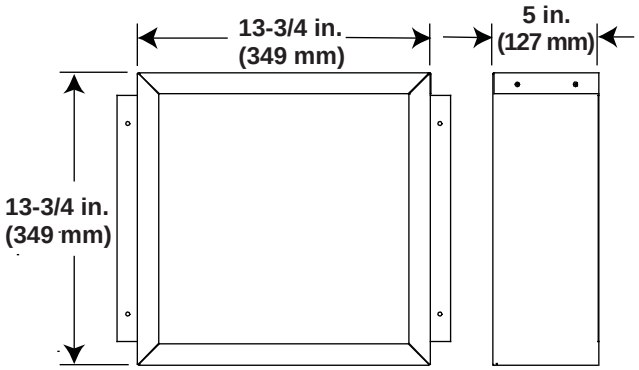
B. Vent Components Diagrams (*continued*)



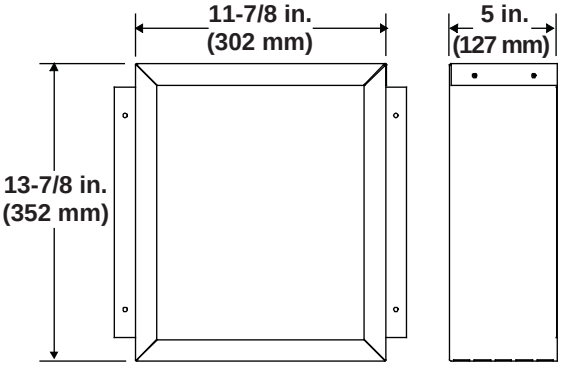
RF6M
Roof Flashing Multi-pak



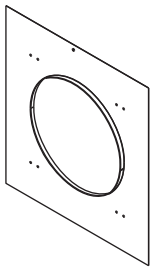
RF12M
Roof Flashing Multi-pak



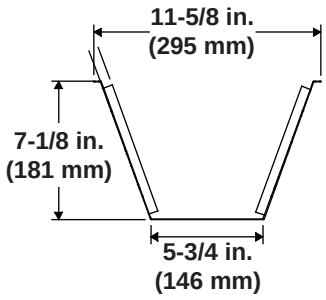
BEK
Trap Cap Brick Extension

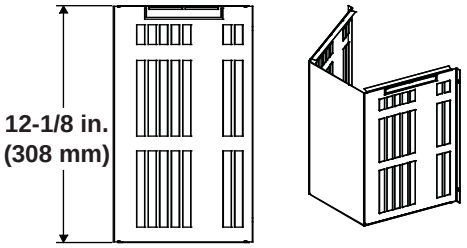


DVP-BEK2
DVP-HPC Cap Brick Extension

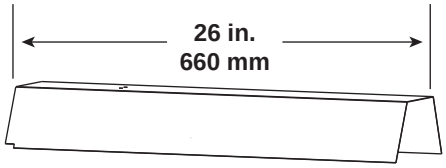


DVP-TRAPFL
Flashing

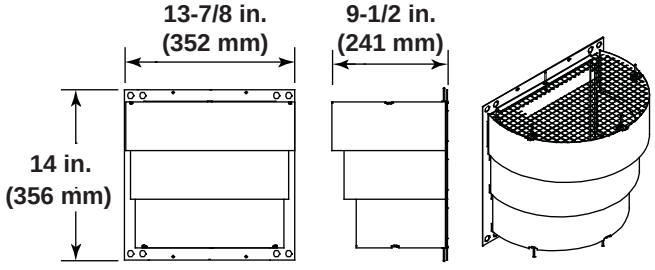




COOL-ADD
Cap Shield



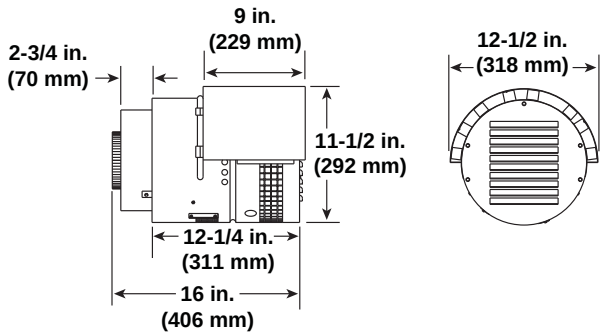
DVP-HSM-B
Extended Heat Shield



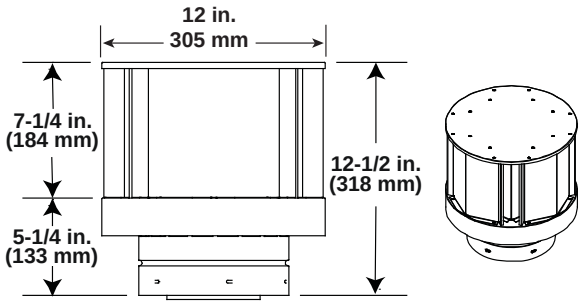
DRC-RADIUS
Cap Shield

Figure 16.5 DVP vent components

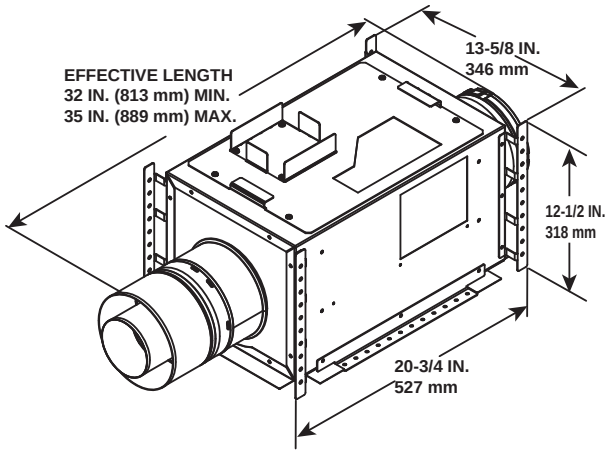
B. Vent Components Diagrams (*continued*)



PVK-80
(Approved for HEIR36, HEIR42, HEIR50)



DVP-TVHW
VerticalTermination Cap (Highwind)

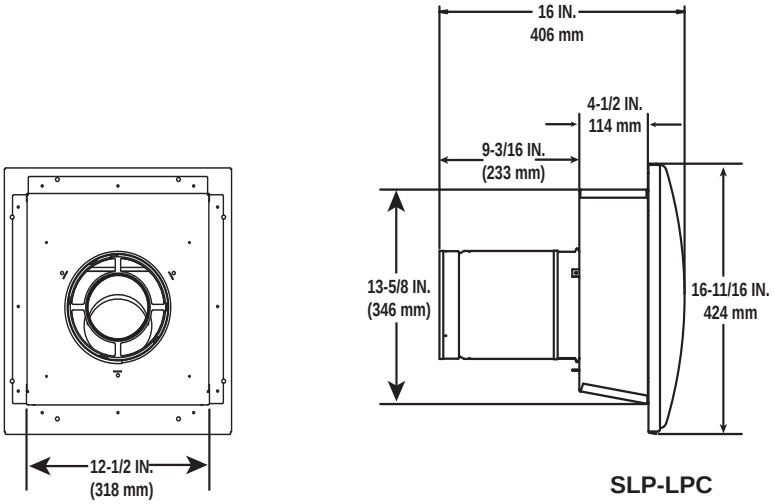


(Approved for HEIR36 and HEIR42 only)

PVI-SLP
Power Vent Inline

Optional Wire Harness	
DESCRIPTION	**PART NUMBER**
10 ft. PV Wire Harness	PVI-WH10
20 ft. PV Wire Harness	PVI-WH20
40 ft. PV Wire Harness	PVI-WH40
60 ft. PV Wire Harness	PVI-WH60
80 ft. PV Wire Harness	PVI-WH80
100 ft. PV Wire Harness	PVI-WH100

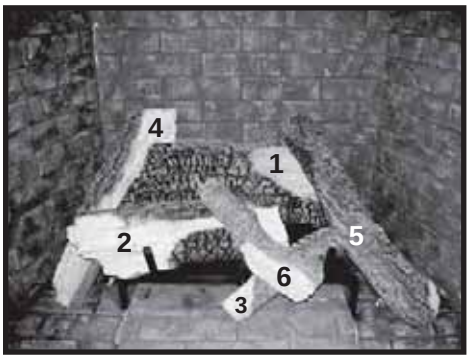
Note: Wire harnesses required to power the PVI-SLP connect to the appliance and are ordered separately from PVI-SLP. Contact your dealer to order.

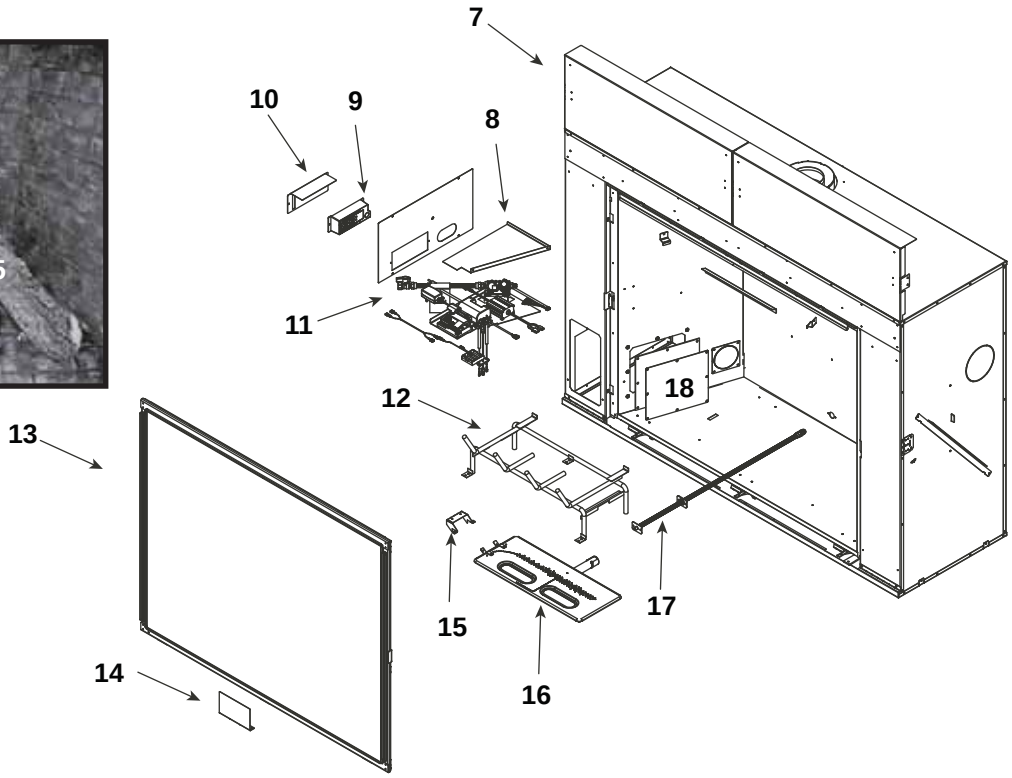


SLP-LPC
SLP Low Profile Cap

Figure 16.6 Vent Components

Log Set Assembly





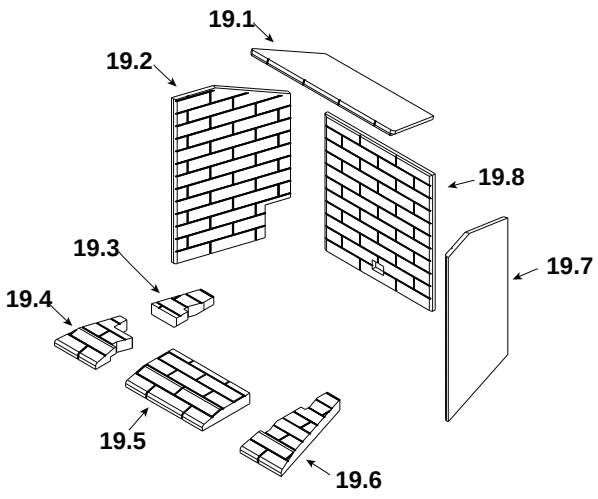
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Assembly		LOGS-HEIR36	**Y**
1	Log 1		SRV2284-701	
2	Log 2		SRV2284-702	
3	Log 3		SRV2283-703	
4	Log 4		SRV2284-704	
5	Log 5		SRV2284-705	
6	Log 6		SRV2284-706	
7	Heat Shield, Header	Qty 2 req	2280-105	
8	Heat Shield, Valve		2281-153	
9	Junction box		4021-013	**Y**
10	J-Box Bracket		2281-154	
11	Valve Assembly		**Refer to Valve Page**	
12	Grate Assembly		2283-015	
13	Glass Assembly		GLA-2283	**Y**
14	Finishing Spacer		2281-113	
15	Pilot Cover		2281-187	
16	Burner Assembly		2283-007	**Y**
17	Orifice Bracket Flex		2012-008	**Y**
18	Access Plate		2281-117	

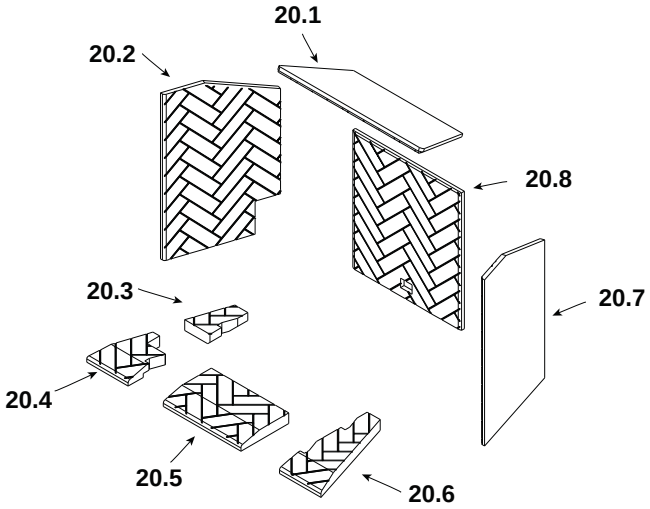
Additional service parts on following page.

8/12

#19 Traditional Refractory



#20 Herringbone Refractory

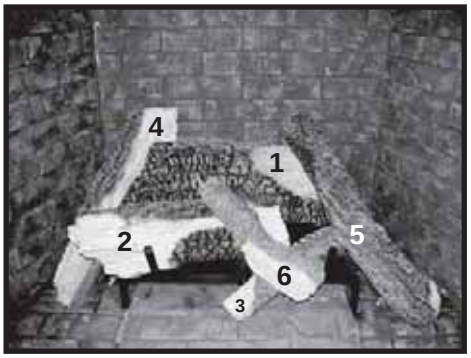


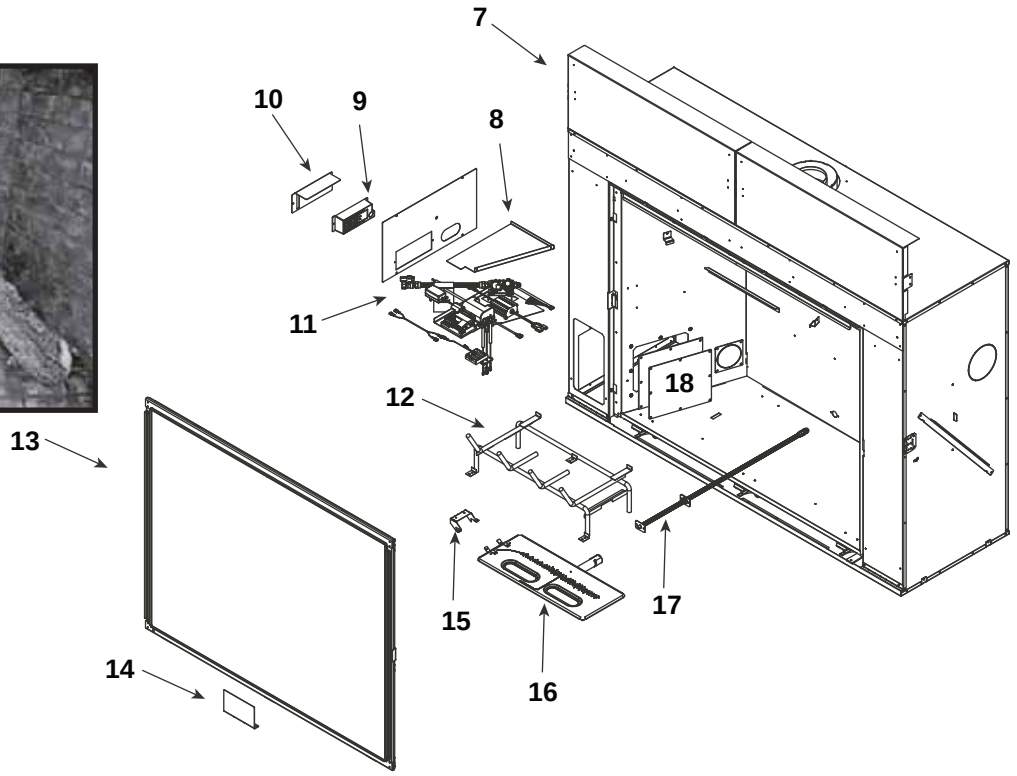
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Refractory, Traditional			
19.1	Refractory, Top		SRV2283-716	
19.2	Refractory, Left		SRV2283-713	
19.3	Refractory, Left Base		SRV2283-718	
19.4	Refractory, Left Base		SRV2283-711	
19.5	Refractory, Front Base		SRV2283-710	
19.6	Refractory, Right Base		SRV2283-712	
19.7	Refractory, Right		SRV2283-714	
19.8	Refractory, Back		SRV2283-715	
	Refractory, Herringbone			
20.1	Refractory, Top		SRV2283-726	
20.2	Refractory, Left		SRV2283-723	
20.3	Refractory, Left Base		SRV2283-728	
20.4	Refractory, Left Base		SRV2283-721	
20.5	Refractory, Front Base		SRV2283-720	
20.6	Refractory, Right Base		SRV2283-722	
20.7	Refractory, Right		SRV2283-724	
20.8	Refractory, Back		SRV2283-725	

Additional service parts on following page.

Log Set Assembly





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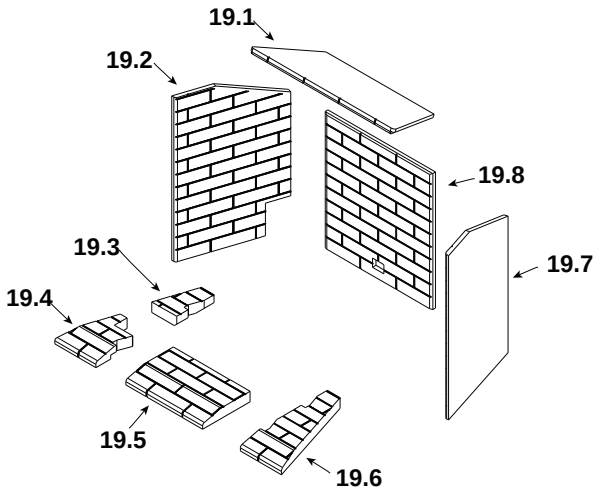
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Assembly		LOGS-HEIR42	**Y**
1	Log 1		SRV2284-701	
2	Log 2		SRv2284-702	
3	Log 3		SRV2284-703	
4	Log 4		SRV2284-704	
5	Log 5		SRV2284-705	
6	Log 6		SRV2284-706	
7	Heat Shield, Header	Qty 2 req	2281-105	
8	Heat Shield, Valve		2281-153	
9	Junction box		4021-013	**Y**
10	J-Box Bracket		2281-154	
11	Valve Assembly		**Refer to Valve Page**	
12	Grate Assembly		2284-015	
13	Glass Assembly		GLA-2284	**Y**
14	Finishing Spacer		2281-113	
15	Pilot Cover		2281-187	
16	Burner Assembly		2284-007	**Y**
17	Orifice Bracket Flex		2012-008	**Y**
18	Access Plate		2281-117	

Additional service parts on following page.

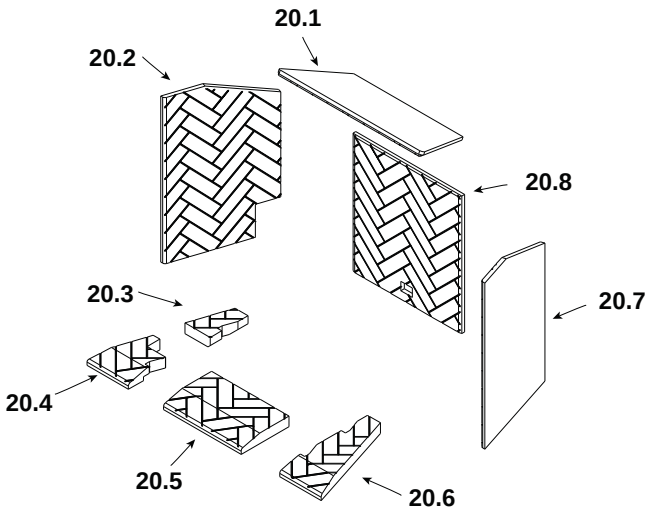
8/12

Beginning Manufacturing Date: May 2012
Ending Manufacturing Date: Active

#19 Traditional Refractory



#20 Herringbone Refractory

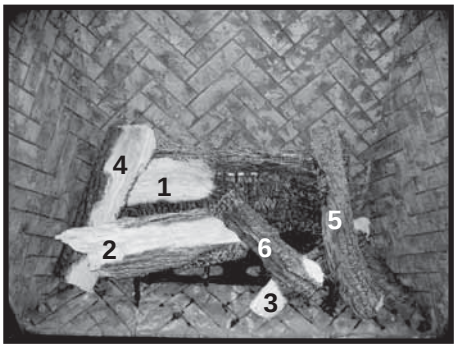


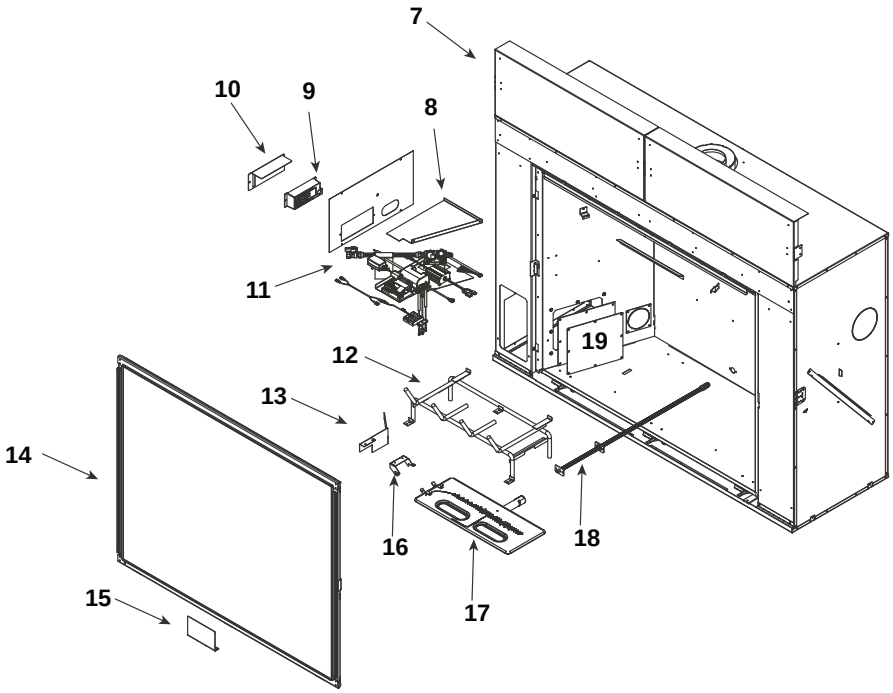
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Refractory, Traditional			
19.1	Refractory, Top		SRV2284-716	
19.2	Refractory, Left		SRV2284-713	
19.3	Refractory, Left Base		SRV2284-718	
19.4	Refractory, Left Base		SRV2284-711	
19.5	Refractory, Front Base		SRV2284-710	
19.6	Refractory, Right Base		SRV2284-712	
19.7	Refractory, Right		SRV2284-714	
19.8	Refractory, Back		SRV2284-715	
	Refractory, Herringbone			
20.1	Refractory, Top		SRV2284-726	
20.2	Refractory, Left		SRV2284-723	
20.3	Refractory, Left Base		SRV2284-728	
20.4	Refractory, Left Base		SRV2284-721	
20.5	Refractory, Front Base		SRV2284-720	
20.6	Refractory, Right Base		SRV2284-722	
20.7	Refractory, Right		SRV2284-724	
20.8	Refractory, Back		SRV2284-725	

Additional service parts on following page.

Log Set Assembly





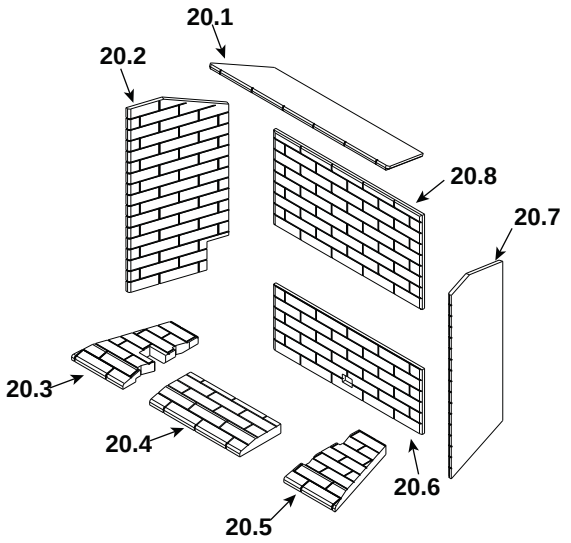
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Assembly		LOGS-HEIR50	**Y**
1	Log 1		SRV2285-701	
2	Log 2		SRV2285-702	
3	Log 3		SRV2285-703	
4	Log 4		SRV2285-704	
5	Log 5		SRV2285-705	
6	Log 6		SRV2285-706	
7	Heat Shield, Header		2282-105	
8	Heat Shield, Valve		2281-153	
9	Junction box		4021-013	**Y**
10	J-Box Bracket		2281-154	
11	Valve Assembly		**Refer to Valve Page**	
12	Grate Assembly		2285-015	
13	Air Deflector		2285-159	
14	Glass Assembly		GLA-2285	
15	Finishing Spacer		2281-113	
16	Pilot Cover		2281-187	
17	Burner Assembly, NG		2285-007	**Y**
	Burner Assembly, LP		2285-008	**Y**
18	Orifice Bracket Flex		2282-161	**Y**
19	Access Plate		2281-117	

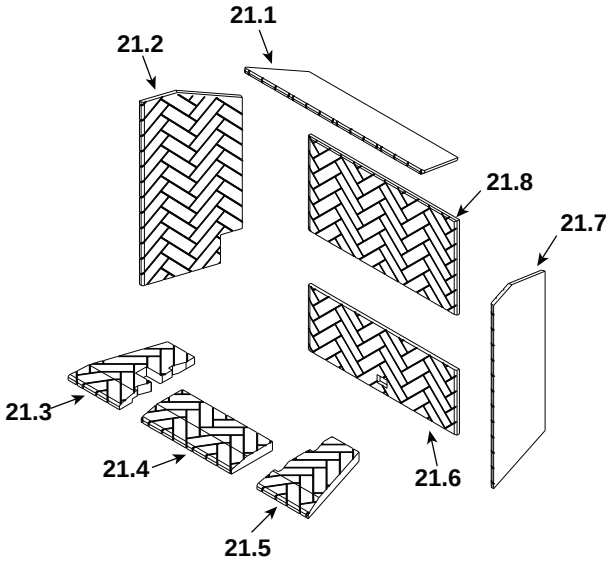
Additional service parts on following page.

8/12

#20 Traditional Refractory



#21 Herringbone Refractory



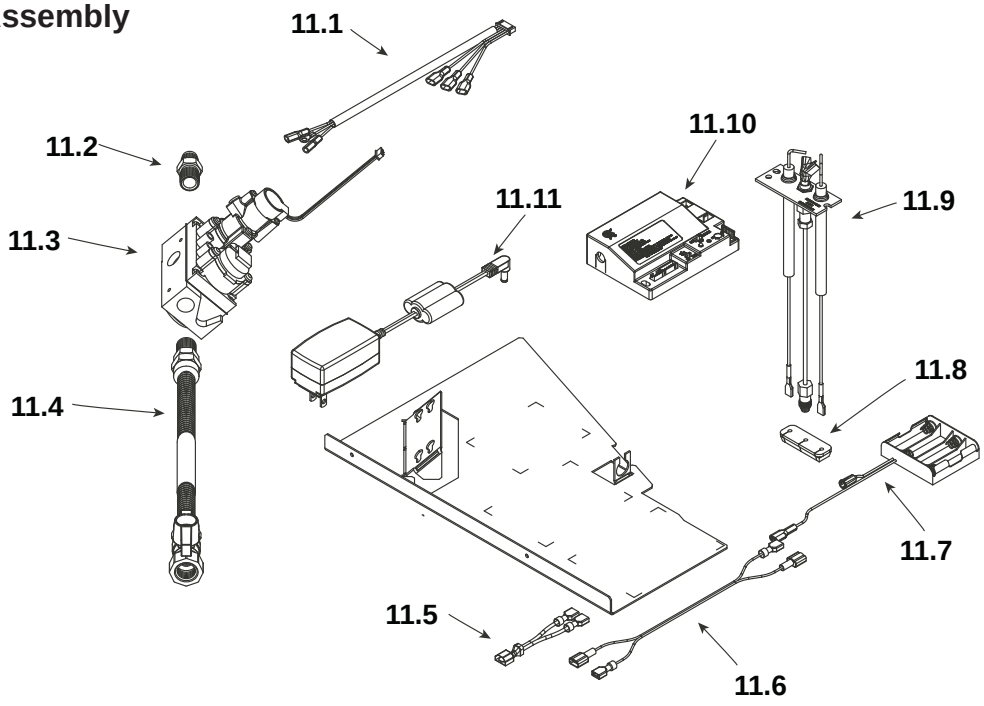
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Refractory, Traditional			
20.1	Refractory, Top		SRV2285-716	
20.2	Refractory, Left		SRV2285-713	
20.3	Refractory, Left Base		SRV2285-711	
20.4	Refractory, Front Base		SRV2285-710	
20.5	Refractory, Right Base		SRV2285-712	
20.6	Refractory, Back Bottom		SRV2285-715	
20.7	Refractory, Right		SRV2285-714	
20.8	Refractory, Back		SRV2285-717	
	Refractory, Herringbone			
21.1	Refractory, Top		SRV2285-726	
21.2	Refractory, Left		SRV2285-723	
21.3	Refractory, Left Base		SRV2285-721	
21.4	Refractory, Front Base		SRV2285-720	
21.5	Refractory, Right Base		SRV2285-722	
21.6	Refractory, Back Bottom		SRV2285-725	
21.7	Refractory, Right		SRV2285-724	
21.8	Refractory, Back		SRV2285-727	

Additional service parts on following page.

Beginning Manufacturing Date: May 2012
Ending Manufacturing Date: Active

#11 Valve Assembly



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
11.1	Wire Harness		2166-304	Y
11.2	Male connector	Pkg of 5	303-315/5	Y
11.3	Valve NG		2166-302	Y
	Valve LP		2166-303	Y
11.4	Flex Ball Valve Assembly, 12"		302-320A	Y
11.5	Jumper Wire		2187-198	Y
11.6	Wire, Battery Jumps, 10 in		2281-196	Y
11.7	Battery Pack		2166-323	Y
11.8	Grommet		2118-420	
11.9	Pilot Assembly, NG		2281-012	Y
11.10	Module		2166-307	Y
11.11	Power Supply		2166-305	Y
	Orifice NG (#30C)	Heir36	582-830	Y
	Orifice LP (#47C)		582-847	Y
	Orifice NG (#26C)	Heir42	582-826	Y
	Orifice LP (#45C)		582-845	Y
	Orifice NG (#24C)	Heir50	582-824	Y
	Orifice LP (#43C)		582-843	Y

Additional service parts on following page.

Beginning Manufacturing Date: May 2012
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Air Shutter Burner Tube		2052-157	
	Exhaust Restrictor		530-299	
	Gasket Assembly		2281-080	
	Glass Clip Tool		2281-375	
	Glass Latch Assembly	Qty 2 req	2146-413	**Y**
	Glass Latch Assembly	Heir-36 (Qty 3 req) Heir-42 & 50 (Qty 4 req)	2155-045	**Y**
	Lava Rock		4021-296	
	Nut 1/4-20 Hex Insert		7000-236	
	Mineral Wool		050-721	
	Non-Comb Assembly	Heir-36	2280-040	
		Heir-42	2281-040	
		Heir-50	2282-040	
	Refractory Tab	Qty 2 req	2281-114	
	Relief Door Assembly		7011-011	
	Remote		RC200-HTL	
	Screws	2 pkgs of 12	2062-110-12/2	**Y**
	Thermostat Wire		2118-170	**Y**
	Top Refractory Support		2281-190	
	Vermiculite Embers		MYSTIC-EMBERS	
	Conversion Kit NG	Heir36	NGK-HEIR36	**Y**
	Conversion Kit LP		LPK-HEIR36	**Y**
	Conversion Kit NG	Heir42	NGK-HEIR42	**Y**
	Conversion Kit LP		LPK-HEIR42	**Y**
	Conversion Kit NG	Heir50	NGK-HEIR50	**Y**
	Conversion Kit LP		LPK-HEIR50	**Y**
	Pilot Orifice NG		593-528	**Y**
	Pilot Orifice LP		593-527	**Y**
	Regulator NG		NGK-DXV-50	**Y**
	Regulator LP		LPK-DXV-50	**Y**

D. Contact Information

heatilator®
The first name in fireplaces

Heatilator, a brand of Hearth & Home Technologies Inc.
7571 215th Street West, Lakeville, MN 55044
www.heatilator.com

Please contact your Heatilator dealer with any questions or concerns.
For the location of your nearest Heatilator dealer,
please visit www.heatilator.com.

- NOTES -

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NOTICE

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

This product may be covered by one or more of the following patents: (United States) 5328356, 5601073, 5613487, 5647340, 5890485, 5941237, 5947112, 5996575, 6006743, 6019099, 6053165, 6145502, 6170481, 6374822, 6484712, 6601579, 6769426, 6863064, 7077122, 7098269, 7258116, 7470729 or other U.S. and foreign patents pending.

2000-945

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